City	$\mathbf{\hat{o}}$	CITY OF AZTEC	
(DE)		REQUEST FOR QUOTATIC	DN
V		RFQ #2020-750	
		THIS IS NOT AN ORDER	
DATE:	06/17/2020	SUBMIT QUOTES TO:	QUESTIONS SHOULD BE DIRECTED TO:
RFQ #:	2020-750	CITY OF AZTEC	graymond@aztecnm.gov
DUE DATE:	07/02/2020	ATTN: Electric Department 201 W CHACO, AZTEC NM 87410	
TIME:	10:00 AM	EMAIL: graymond@aztecnm.gov	
NIGP CODE(S):	285-55 or 56	PHONE: (505) 334-7667 FAX: (505) 334-7684	

NEW MEXICO RESIDENT PREFERENCE	PAYMENT TERMS	DELIVERY/SERVICE ADDRESS
#	%DAYS	402 South Light Plant Road Aztec NM 87410
<u>New Mexico Resident or Veteran Preference</u> will be applied to only those certified vendors	NET 30 DAYS AFTER RECEIPT	FOB DESTINATION – FREIGHT COSTS:
who have included both number (written above) AND attach current certificate.	OF INVOICE	

NOTES TO BIDDERS: Specifications attached, equivalent will NOT be considered.

ITEM #	DESCRIPTION	QTY	UNIT	PRICE PER UNIT	TOTAL	DELIVERY TIME AFTER ORDER
1	Lumark Navion LED Light NVN-AF-01-D-UNV-T3R-10K-PER7-BZ	25	EA			
2	Lumark Navion LED Light NVN-AF-01-D-UNV-T3R-10K-PER7-AP	25	EA			

DATE OF QUOTE
SUBMITTED BY (Printed Name)
SIGNATURE (To be valid offer, bidder must sign here)
COMPANY NAME
ADDRESS
TELEPHONE
FAX
EMAIL ADDRESS
FED TAX ID NUMBER
NM CRS ID NUMBER

- RFQ shall be FOB Destination and must indicate normal lead time and/or best delivery date on the items listed. Shipping costs shall be included in quote. New Mexico laws prohibit acceptance of ownership of goods in transit.
- 2. This RFQ and any required documents must be received by the Department indicated on the RFQ by the date and time indicated. RFQ's may be submitted via email, fax or USPS.
- All supplies and components quoted shall be new unless indicated otherwise. Any quotes submitted for used or reconditioned supplies or components will be considered non-responsive. <u>Quotes must be valid for a minimum of</u> <u>30 days.</u>
- 4. The RFQ Number shall appear on all quotations and related correspondence.
- 5. New Mexico Resident & Veteran Vendor Preference: Preference will only be applied to those Bidders who have been issued a certification number from the State of New Mexico Taxation & Revenue Department <u>and return a copy</u> <u>of their certificate with their quote</u>. Veterans Preference is separate from the New Mexico resident preference and is not cumulative with that preference.
- 6. Use of Contract by Other Agencies: Pursuant to Section 13-1-129, NMSA 1978, Bidders /Contractors /Offerors are hereby notified that any central purchasing office allowed by law and as otherwise allowed by their respective governing rules and regulations, may contract for the goods and/or services included in this procurement document with the awarded Bidder /Contractor /Offeror. Contractual engagements accomplished under this provision shall be solely between the Bidder /Contractor /Offeror and the contracting entity with no obligation by

the City of Aztec.

- By law (Section 13-1-191, NMSA, 1978) the City is required to inform Vendors of the following: (1) it is a third-degree felony under New Mexico law to commit the offense of bribery of a public officer or public employee (Section 30-24-1, NMSA, 1978); (2) it is a third- degree felony to commit the offense of demanding or receiving a bribe by a public officer or public employee (Section 30-24-2, NMSA, 1978); (3) it is a fourth-degree felony to commit the offense of soliciting or receiving illegal kickbacks (Section 30-41-1, NMSA,1978); (4) it is a fourth-degree felony to commit the offense of offering or paying illegal kickbacks (Section 30-41-2, NMSA, 1978).
- 8. Conflict of Interest: Bidder warrants that it presently has no interest and will not acquire any interest, direct or indirect, which would conflict in any manner or degree with the performance of service under this contract. Bidder must notify the City's Chief Procurement Officer if any employee(s) of the requesting department or the Purchasing Office have a financial interest in the Bidder. If yes, the Bidder must specify the employee(s) name in their proposal.
- Debarment, Suspension, and Ineligibility: By submitting a response (RFQ/Bid/Offer) to this solicitation, the business (Bidder /Offeror /Contractor) represents and warrants that it is not debarred, suspended, or placed in ineligibility under the provisions of Federal Executive Order 12549.
- 10. New vendors required to complete Vendor Packet <u>http://www.aztecnm.gov/purchasing/NewVendorPacket.p</u> <u>df</u> prior to issuance of purchase order.

DESCRIPTION

The Navion[™] area, site and roadway LED luminaire combines world class optical performance, energy efficiency, and outstanding versatility to meet the requirements of any area, site or roadway lighting application. Patented AccuLED Optic[™] technology delivers unparalleled uniformity. Heavy-duty construction and easy installation features make the Navion luminaire the right choice for site lighting applications and municipal streets. UL/cUL listed for wet locations, optional IP66 enclosure rating available.

SPECIFICATION FEATURES

Construction

Heavy-duty, cast aluminum housing and door with extruded aluminum heat sink. Tool-less entry, hinged removable power tray door for easy maintenance. 3G vibration rated.

Optics

Choice of 16 patented, highefficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 6000K CCT. For the ultimate level of spill light control, an optional house side shield accessory is available and can be field or factory installed. The house side shield is designed to seamlessly integrate with the SL2, SL3, SL4 or AFL optics.

Electrical

LED drivers are mounted to the removable die-cast aluminum door for optimal heat sinking and ease of maintenance, 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. 10kV common and differentialmode surge protection standard. 0-10V dimming driver standard. Thermal management incorporates both conduction and convection to transfer heat rapidly away from the LED source for optimal efficiency and light output. Suitable for ambient temperatures from -40°C to 40°C. Optional 50°C HA option available. Greater than 90% lumen maintenance expected at 60,000 hours. Light squares are IP66 enclosure rated. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Lumark

Catalog #	Туре
Project	
Comments	Date
Prepared by	

Mounting

Four-bolt/two-bracket slipfitter with cast-in pipe stop and built-in incremental 2.5° leveling steps are standard. Fixed-in-place bird guard seals around 1-1/4" or 2" mounting arms.

Finish

Housing and cast parts finished in five-stage superTGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is anodized aluminum. Consult your lighting representative at Eaton for a complete selection of standard colors.

Warranty Five-year warranty.





NAV NAVION

1-6 Light Squares

AREA / SITE / ROADWAY LUMINAIRE



CERTIFICATION DATA UL/cUL Wet Location Listed ISO 9001 IP66 Light Squares 3G Vibration Rated DesignLights Consortium[®] Qualified*

ENERGY DATA

Electronic LED Driver >0.9 Power Factor <20% Total Harmonic Distortion 120-277V 50/60 Hz, 347V 60 Hz, 480V 60 Hz -40°C Minimum Temperature +40°C Ambient Temperature Rating

EPA

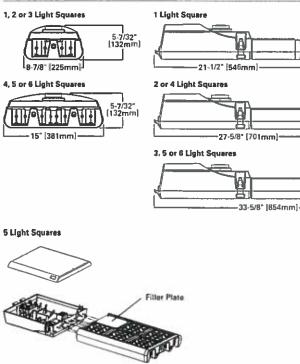
Effective Projected Area (So. Ft.): (Fixture only) 1 Square 0.8 2 Square's 1.0 3 Square's 1.2 4 Square's 1.2 5 Square's 1.4 6 Square's 1.4 (Fixture with Al arm) 1 Square 1.2 2 Square's 1.3 3 Square's 1.5 4 Square's 1.5 5 Square's 1.7 6 Square's 1.7 SHIPPING DATA

Approximate Net Weight: 1 Square 17 lbs. (7.7 kgs.) 2 Square's 22 lbs. (10.0 kgs.) 3 Square's 26 lbs. (11.8 kgs.) 4 Square's 31 lbs. (14.1 kgs.) 5 Square's 36 lbs. (16.8 kgs.)



TD500021EN June 3, 2019 11:25 AM

DIMENSIONS



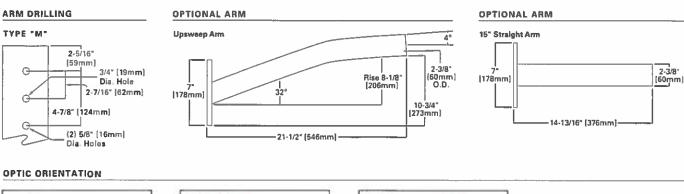


TYPE "M"

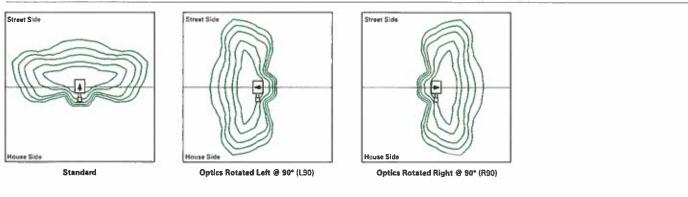
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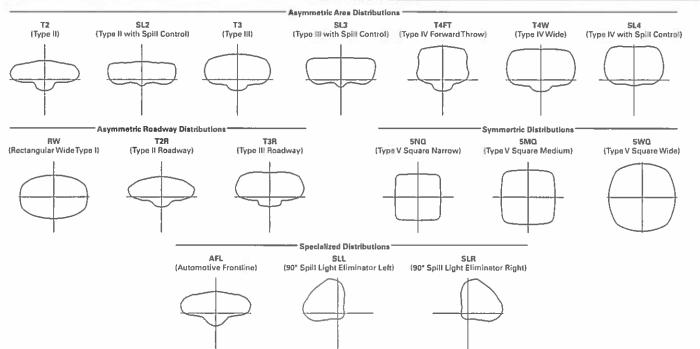
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OPTIC ORIENTATION









Eator Highway 74 South Peachtree City, GA 30269 P⁺ 770-486-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice

NAV NAVION

NOMINAL POWER LUMENS (1.2A)

page 3

LUMEN MULTIPLIER

Number o	f Light Squares	1	2	3	4	5	6
Nominal P	'ower (Watts)	67	129	191	258	320	382
Input Curr	ent @ 120V (A)	0.58	1.16	1.78	2.31	2.94	3.56
Input Curr	ent @ 208V (A)	0.33	0.63	0.93	1.27	1.57	1,87
Input Curr	ent @ 240V (A)	0.29	0.55	0.80	1.10	1.35	1.61
Input Curr	ent @ 277V (A)	0.25	0.48	0.70	0.96	1.18	1.39
Input Curr	ent @ 347V (A)	0.20	0.39	0.57	0.78	0.96	1.15
Input Curr	ent @ 480V (A)	0.15	0.30	0.43	0.60	0.73	0.85
Optics			I		<u>.</u>		
	4000K/5000K Lumens	6,711	13,379	19,896	26,798	33,028	39,567
T2	3000K Lumens	6,345	12,650	18,811	25,337	31,226	37,409
	BUG Rating	B1-U0-G2	82-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
	4000K/5000K Lumens	7,184	14,324	21,301	28,690	35,359	42,360
T2R	3000K Lumens	6,793	13,543	20,140	27,125	33,431	40,050
	BUG Rating	B1-U0-G2	82-U0-G2	82-U0-G3	83-U0-G3	B3-U0-G4	B3-U0-G4
	4000K/5000K Lumens	6,858	13,673	20,333	27,385	33,752	40,434
ТЗ	3000K Lumens	6,483	12,928	19,224	25,892	31,911	38,229
	BUG Rating	B1-U0-G2	82-U0-G2	B3-U0-G3	83-U0-G4	B3-U0-G4	B3-U0-G5
	4000K/5000K Lumens	6,973	13,902	20,675	27,846	34,321	41,114
T3R	3000K Lumens	6,593	13,902	19,548	26,327	34,321	38,872
† 3R		6,553 B1-U0-G2				· · ·	
	BUG Rating		82-U0-G2	B2-U0-G3	83-U0-G4	B3-U0-G4	B3-U0-G5
T4FT	4000K/5000K Lumens	6,909	13,777	20,488	27,594	34,010	40,742
(4PT	3000K Lumens	6,533	13,026	19,371	26,089	32,155	38,520
	BUG Rating	B1-U0-G2	B2-U0-G3	82-U0-G4	B3-U0-G4	83-U0-G5	B3-U0-G5
	4000K/5000K Lumens	6,775	13,507	20,087	27,055	33,345	39,944
T4W	3000K Lumens	6,406	12,770	18,991	25,580	31,527	37,765
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	83-U0-G5	B3-U0-G5
	4000K/5000K Lumens	6,721	13,400	19,928	26,840	33,080	39,629
SL2	3000K Lumans	6,355	12,669	18,842	25,377	31,277	37,468
512	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	83-U0-G4	B3-U0-G5
	4000K/5000K Lumens	6,847	13,651	20,300	27,341	33,699	40,370
SL3	3000K Lumens	6,474	12,907	19,194	25,851	31,861	38,169
	BUG Rating	B1-U0-G2	B2-U0-G3	82-U0-G3	B3-U0-G4	83-U0-G5	B3-U0-G5
	4000K/5000K Lumens	6,540	13,040	19,392	26,118	32,190	38,563
SL4	3000K Lumens	6,183	12,329	18,335	24,694	30,434	36,460
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5
	4000K/5000K Lumens	7,047	14,052	20,897	28,144	34,688	41,554
5NQ	3000K Lumens	6,663	13,286	19,757	26,610	32,796	39,289
	BUG Rating	B3-U0-G1	83-U0-G2	B4-U0+G2	B4-U0-G2	85-U0-G2	85-U0-G3
	4000K/5000K Lumens	7,301	14,557	21,648	29,156	35,935	43,049
5MQ	3000K Lumens	6,903	13,762	20,468	27,566	33,975	40,701
	BUG Rating	B3-U0-G1	84-U0-G2	B4-U0-G2	B5-U0-G3	85-U0-G4	B5-U0-G4
	4000K/5000K Lumens	7,132	14,220	21,147	28,483	35,106	42,055
5WQ	3000K Lumens	6,743	13,444	19,994	26,930	33,191	39,761
	BUG Rating	83-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	85-U0-G4	B5-U0-G4
	4000K/5000K Lumens	6,056	12,072	17,953	24,181	29,803	35,702
CLUCIO		5,725	11,413	16,973	22,861	29,803	33,765
SLL/SLR	3000K Lumens						
	BUG Rating	81-U0-G2	B2-U0-G3	82-U0-G3	B3-U0-G4	93-U0-G5	B3-U0-G5
Pasar	4000K/5000K Lumens	7,006	13,967	20,771	27,977	34,481	41,306
RW	3000K Lumens	6,624	13,206	19,638	26,451	32,600	39,053
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	85-U0-G3	B5-U0-G3
	4000K/5000K Lumens	7,024	14,005	20,827	28,052	34,574	41,418
AFL	3000K Lumens	6,641	13,241	19,692	26,523	32,688	39,160
	BUG Rating	81-U0-G1	B2-U0-G2	82-U0-G2	B3-U0-G2	83-U0-G3	B3-U0-G3

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1:01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projectad L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

* Nominal data for 70 CRI.



NOMINAL POWER LUMENS (1A)

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LUMEN MULTIPLIER

Number o	of Light Squares	1	2	3	4	5	6
Nominal Power (Watts)		59	113	166	225	279	333
Input Current @ 120V (A)		0.51	1.02	1.53	2.03	2.55	3.06
Input Current @ 208V (A)		0.29	0.56	0.82	1.11	1.37	1.64
Input Cur	rent @ 240V (A)	0.26	0.48	0.71	0.96	1,19	1.41
Input Cur	rent @ 277V (A)	0.23	0.42	0.61	0.83	1.03	1.23
Input Cur	rent @ 347V (A)	0.17	0.32	0.50	0.64	0.82	1.00
Input Cur	rent @ 480V (A)	D.14	0.24	0.37	0.48	0.61	0.75
Optics					·		
	4000K/5000K Lumens	6,117	12,196	18,138	24,429	30,109	36,068
T2	3000K Lumens	5,783	11,530	17,148	23,096	28,466	34,101
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	83-U0-G4	83-U0-G4
	4000K/5000K Lumens	6,549	13,058	19,418	26,153	32,233	38,615
TZR	3000K Lumens	6,192	12,346	18,359	24,726	30,476	36,509
	BUG Rating	B1-U0-G1	B2-U0-G2	82-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4
	4000K/5000K Lumens	6,251	12,465	18,535	24,964	30,768	36,859
ТЗ	3000K Lumons	5,910	11,785	17,524	23,602	29,090	34,849
	BUG Rating	5,510 B1-U0-G2	B2-U0-G2	83-U0-G3	B3-U0-G4	29,090 B3-U0-G4	34,849 B3-U0-G5
	4000K/5000K Lumens						
T3R		6,357	12,673	18,847	25,385	31,287	37,480
	3000K Lumens	6,010	11,982	17,819	24,000	29,581	35,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	83-U0-G4	B3-U0-G4	B3-U0-G5
T4FT	4000K/5000K Lumens	6,298	12,559	18,676	25,154	31,003	37,140
	3000K Lumens	5,955	11,874	17,657	23,782	29,312	35,115
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	83-U0-G4	B3-U0-G4	B3-U0-G5
	4000K/5000K Lumens	6,177	12,312	18,311	24,662	30,397	36,413
T4W	3000K Lumens	5,840	11,640	17,312	23,317	28,740	34,428
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5
	4000K/5000K Lumens	6,126	12,215	18,166	24,467	30,156	36,126
SL2	3000K Lumens	5,792	11,549	17,174	23,132	28,511	34,156
	BUG Rating	81-U0-G2	B2-U0-G3	83-U0-G3	83-U0-G4	B3-U0-G4	B3-U0-G5
	4000K/5000K Lumens	6,242	12,444	18,505	24,924	30,719	36,801
SL3	3000K Lumens	5,901	11,765	17,496	23,565	29,044	34,794
	BUG Rating	81-U0-G2	B2-U0-G3	82-U0-G3	83-U0-G4	B3-U0-G4	B3-U0-G5
	4000K/5000K Lumens	5,962	11,887	17,678	23,808	29,344	35,154
SL4	3000K Lumens	5,637	11,238	16,713	22,510	27,744	33,237
	BUG Rating	81-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5
	4000K/5000K Lumens	6,424	12,809	19,048	25,656	31,621	37,881
5NQ	3000K Lumens	6,074	12,110	18,009	24,257	29,897	35,815
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	85-U0-G2	85-U0-G3
	4000K/5000K Lumens	6,655	13,270	19,734	26,578	32,758	39,242
5MQ	3000K Lumens	6,292	12,546	18,657	25,129	30,972	37,102
	BUG Rating	B3-U0-G1	84-U0-G2	B4-U0-G2	85-U0-G3	85-U0-G3	85-U0-G4
	4000K/5000K Lumens	6,502	12,963	19,278	25,965	32,002	38,336
5WQ	3000K Lumens	6,147	12,963	18,227	23,505	32,002	36,246
		93-U0-G1	B4-U0-G2	85-U0-G3	85-U0-G3	85-U0-G4	85-U0-G4
	BUG Rating	5,520					
SI / / P D	4000K/5000K Lumens		11,005	16,366	22,043	27,168	32,545
SLL/SLR	3000K Lumens	5,219	10,405	15,473	20,840	25,686	30,771
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5
	4000K/5000K Lumens	6,386	12,733	18,935	25,503	31,432	37,654
RW	3000K Lumens	6,038	12,038	17,902	24,112	29,719	35,600
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	85-U0-G3
	4000K/5000K Lumens	6,403	12,766	18,986	25,572	31,517	37,756
AFL	3000K Lumens	6,053	12,070	17,950	24,177	29,798	35,697
	BUG Rating	B1-U0-G1	B2-U0-G1	82-U0-G2	83-U0-G2	B3-U0-G3	B3-U0-G3

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Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

* Nominal data for 70 CRI.



Specifications and dimensions subject to change without notice.

NOMINAL POWER LUMENS (800MA)

LUMEN MULTIPLIER

Number o	f Light Squares	1	2	3	4	5	6
Nominal P	'ower (Watts)	44	85	124	171	210	249
Input Current @ 120V (A)		0.39	0.77	1.13	1.54	1.90	2.26
Input Curr	rent @ 208V (A)	0.22	0.44	0.62	0.88	1.06	1.24
Input Curr	rent @ 240V (A)	0.19	0.38	0.54	0.76	0.92	1.08
input Curr	rent @ 277V (A)	0.17	0.36	0.47	0.72	0.83	0.95
Input Curr	rent @ 347V (A)	0.15	0.24	0.38	0.49	0.63	0.77
input Curr	rent @ 480V (A)	0,11	0,18	0,29	0.37	0.48	0.59
Optics							-
	4000K/5000K Lumens	4,942	9,854	14,654	19,737	24,326	29,141
T2	3000K Lumens	4,672	9,317	13,854	18,660	22,999	27,552
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	83-U0-G3	83-U0-G3	B3-U0-G4
	4000K/5000K Lumens	5,291	10,550	15,689	21,130	26,042	31,199
T2R	3000K Lumens	5,002	9,974	14,833	19,978	24,622	29,498
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	83-U0-G3	B3-U0-G4
	4000K/5000K Lumens	5,050	10,070	14,975	20,170	24,859	29,780
тз	3000K Lumens	4,775	9,521	14,158	19,069	23,503	28,156
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	83-U0-G3	B3-U0-G4	B3-U0-G4
	4000K/5000K Lumens	5,136	10,239	15,228	20,509	25,278	30,281
T3R	3000K Lumens	4,857	9,680	14,397	19,390	23,899	28,630
	BUG Rating	81-U0-G1	B1-U0-G2	82-U0-G3	B2-U0-G3	83-U0-G4	B3-U0-G4
	4000K/5000K Lumens	5,089	10,147	15,090	20,323	25,049	30,007
T4FT	3000K Lumens	4,812	9,593	14,267	19,214	23,683	28,370
	BUG Rating	91-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4
	4000K/5000K Lumens	4,990	9,948	14,794	19,926	24,559	29,419
T4W	3000K Lumens	4,718	9,406	13,987	18,840	23,220	27,814
T4W	BUG Rating	81-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
	4000K/5000K Lumens	4,950	9,869	14,677	19,767	24,364	29,187
SL2	3000K Lumens	4,680	9,331	13,877	18,690	23,035	27,596
	BUG Rating	81-U0-G1	B2-U0-G2	82-U0-G3	83-U0-G3	B3-U0-G4	83-U0-G4
	4000K/5000K Lumens	5,043	10,055	14,951	20,137	24,820	29,733
SL3	3000K Lumens	4,768	9,507	14,136	19,038	23,467	28,111
	BUG Rating	81-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4
	4000K/5000K Lumens	4,817	9,603	14,282	19,236	23,708	28,402
SL4	3000K Lumens	4,554	9,079	13,503	18,186	22,415	26,854
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	82-U0-G5
	4000K/500DK Lumens	5,190	10,349	15,390	20,72B	25,548	30,606
5NQ	3000K Lumens	4,908	9,785	14,551	19,598	24,155	28,936
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	4000K/5000K Lumens	5,378	10,722	15,944	21,474	26,467	31,706
5MQ	3000K Lumens	5,084	10,137	15,074	20,303	25,024	29,977
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	85-U0-G3
	4000K/5000K Lumens	5,253	10,473	15,575	20,978	25,856	30,974
5WQ	3000K Lumens	4,967	9,902	14,726	19,834	24,446	29,285
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	85-U0-G3	85-U0-G3	85-U0-G4
	4000K/5000K Lumens	4,460	8,891	13,223	17,810	21,949	26,295
SLL/SLR	3000K Lumens	4,216	8,406	12,501	16,838	20,753	24,861
	BUG Rating	B1-U0-G2	B1-U0-G3	82-U0-G3	82-U0-G3	B3-U0-G4	B3-U0-G4
	4000K/5000K Lumens	5,160	10,287	15,298	20,605	25,395	30,423
RW	3000K Lumens	4,878	9,726	14,464	19,482	25,350	28,764
	BUG Rating	B2-U0-G1	83-U0-G1	B3-U0-G2	B4-U0-G2	84-U0-G2	84-U0-G2
	4000K/5000K Lumana	5,173	10,314	15,339	20,661	25,463	30,504
		3,173	10,014	,0,000		20,903	30,304
AFL	3000K Lumens	4,690	9,751	14,503	19,533	24,074	28,841

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40*C	0.99
50°C	0.97

MEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)	
Up to 1A	Up to 50°C	> 95%	416,000	
1.2A	Up to 40°C	> 90%	205,000	

FAT-N

* Nominal data for 70 CRI.

Powering Business Worldwide

Eaton 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

NOMINAL POWER LUMENS (600MA)

LUMEN MULTIPLIER

Number o	f Light Squares	1	2	3	4	5	6
Nominal P	ower (Watts)	34	66	96	129	162	193
Input Curr	ent @ 120V (A)	0.30	0.58	0.86	1,16	1,44	1,73
Input Curr	ent @ 208V (A)	0.17	0.34	0_49	0.65	0.84	0.99
Input Curr	ent @ 240V (A)	0.15	0.30	0_43	0.56	0.74	0.87
Input Curr	ent @ 277V (A)	0.14	0.28	0.41	0.52	0.69	0.81
Input Curr	ent @ 347V (A)	0.11	0,19	0.30	0.39	0.49	0.60
Input Curr	ent @ 480V (A)	0.08	0.15	0.24	0.30	0.38	0.48
Optics							
	4000K/5000K Lumens	4,030	8,035	11,950	16,095	19,837	23,764
T2	3000K Lumens	3,811	7,597	11,299	15,218	18,755	22,468
	BUG Rating	81-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	83-U0-G3
	4000K/5000K Lumens	4,315	8,603	12,794	17,232	21,237	25,442
T2R	3000K Lumens	4,080	8,134	12,096	16,292	20,080	24,055
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
	4000K/5000K Lumens	4,118	8,212	12,212	16,448	20,272	24,285
T3	3000K Lumens	3,894	7,764	11,547	15,551	19,166	22.961
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	83-U0-G3	B3-U0-G4
	4000K/5000K Lumens	4,188	8,350	12,418	16,725	20.613	24,694
TJR	3000K Lumens	3,960	7,895	11,740	15,813	19,490	23,348
an.	BUG Rating	3,960 B1-U0-G1	7,895 B1-U0-G2	82-U0-G2	15,813 B2-U0-G3	19,490 B2-U0-G3	23,348 B3-U0-G4
TAFT	4000K/5000K Lumens	4,150	8,275	12,305	16,573	20,426	24,470
141-1	3000K Lumens	3,923	7,823	11,634	15,669	19,313	23,136
	BUG Rating	B1-U0-G1	B1-U0-G2	82-U0-G2	82-U0-G3	B2-U0-G4	B3-U0-G4
	4000K/5000K Lumens	4,069	8,112	12,065	16,250	20,027	23,991
T4W	3000K Lumens	3,847	7,670	11,407	15,363	18,935	22,683
	BUG Rating	B1+U0-G1	B1-U0-G2	82-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4
	4000K/5000K Lumens	4,037	8,049	11,968	16,121	19,869	23,802
SL2	3000K Lumens	3,816	7,610	11,316	15,242	18,785	22,504
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	83-U0-G3	B3-U0-G4
	4000K/5000K Lumens	4,112	B,199	12,193	16,421	20,240	24,247
SL3	3000K Lumens	3,889	7,752	11,528	15,526	19,137	22,925
	BUG Rating	81-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4
	4000K/5000K Lumens	3,928	7,832	11,647	15,687	19,334	23,162
SL4	3000K Lumens	3,714	7,405	11,012	14,832	18,27 9	21,899
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4
	4000K/5000K Lumens	4,233	8,439	12,551	16,904	20,834	24,958
5NQ	3000K Lumens	4,002	7,979	11,867	15,982	19,698	23,597
	BUG Rating	82-U0-G1	B3-U0-G1	B3-U0-G2	83-U0-G2	84-U0-G2	84-U0-G2
	4000K/5000K Lumens	4,385	8,743	13,002	17,511	21,583	25,856
5MQ	3000K Lumans	4,146	8,267	12,293	16,556	20,406	24,446
	BUG Rating	82-U0-G1	B3-U0-G2	B4-U0-G2	84-U0-G2	84-U0-G2	85-U0-G3
	4000K/5000K Lumens	4,284	8,541	12,702	17,107	21,085	25,259
5WQ	3000K Lumens	4,050	8,075	12,010	16,174	19,935	23,881
	BUG Rating	B3-U0-G1	83-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3
	4000K/5000K Lumens	3,637	7,251	10,783	14,523	17,900	21,443
SLL/SLR	3000K Lumens	3,438	6,855	10,195	13,731	16,923	20,274
	BUG Rating	81-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4
	4000K/5000K Lumens	4,207	8,389	12,476	16,803	20,710	24,809
RW	3000K Lumens	3,978	7,932	11,796	15,886	19,580	23,456
-100		B2-U0-G1	83-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	84-U0-G2
	BUG Rating			10.244.02			
4.51	4000K/S000K Lumens	4,219	8,412	12,510	16,848	20,765	24,876
AFL	3000K Lumens	3,969	7,953	11,827	15,929	19,633	23,519
	BUG Rating	81-U0-G1	B1-U0-G1	82-U0-G1	82-U0-G2	82-U0-G2	B3-U0-G2

Amblent Temperature	Lumen Multiplier		
0°C	1,02		
10°C	1,01		
25°C	1.00		
40°C	0.99		
50°C	0.97		

LUMEN MAINTENANCE

Drive Current	Amblent Temperature	TM-21 Lumen Maintenance (50,000 Hours)	Projected L70 (Hours)	
Up to 1A	Up to 50°C	> 95%	416,000	
1.2A	Up to 40°C	> 90%	205,000	

page 6

* Nominal data for 70 CRI.



CONTROL OPTIONS

0-10V (D)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PER and PER7)

Optional button-type photocontrol (P) and photocontrol receptacles (RER and PER7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

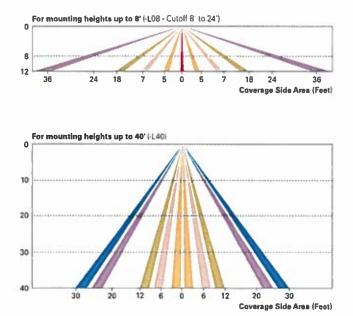
After Hours DIm (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

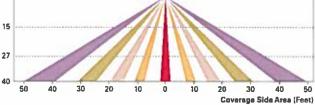
Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity distocted. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire of after five minutes of no activity. The MS/X-LXX is also preset to five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage, pattern for mounting heights from 8'-40'.



For mounting heights up to 20' (-L20) G 10 15 20 20 15 з D 15 18 18 12 9 6 3 6 9 12 20 **Coverage Side Area (Feet)** For mounting heights up to 40' (-L40W)

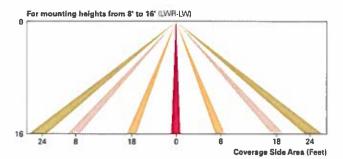


LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)

The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.

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10 20 30 40

For mounting heights from 16' to 40' (LWR-LN)

30

20 10

40

WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

LumenSafe Integrated Network Security Camera (LD)

Eaton brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform of choice.



1121 Highway 74 South Peachtree City, GA 30259 P: 770-486-4800 www.eaton.com/kghting

Specifications and dimensions subject to change without notice. Coverage Side Area (Feet)

ORDERING INFORMATION

Sample Number: NAV-AF-01-D-UNV-T3-10K-AI-AP

Product Family ^{1,2}	Light Engine	Number of Light Squares ²	Driver		Voltage	Distribution		Surge Protection	
NAV-Navion	AF	01-1 02-2 03-3 04=4	D-Dimr	ning	UNV-Universal (120-277V) 347-347V * 480-480V *	T2=Type II T2R=Type II Roady T3=Type III T3R=Type III Roady T4FT=Type IV Forw	Nay	10K-Cooper 10kV (X=Driver Surge Pri	Surge Module (Standard otection Only *
ALCH-	AF-02-D	UNV-T3R	101	PEF PEF	7	AW-Type IV Wide SNQ-Type V Narro TMQ-Type V Squa SNQ-Type V Squa SL2-Type II w/Spii SL3-Type II w/Spii SL4-Type II w/Spii SL4-Spii Ligh SLR=90° Spiil Ligh NW-Rectangular V FL-Automotive F	w re Medium re Wide I Control II Control II Control I Eliminator Left Eliminator Right Vide Type I		
Getions (Atd	Sules	un	L	2	mu				Color
800 - Drive Cur 1200 - Drive Cur PER-NEMA Ty PER7-7 PIN Ni IP66 - IP66 Rat HA=50°C High L90 - Optics Ro	3000K * 3000K * 6000K * 5000K * rrent Factory Set urrent Factory Set wistlock Photoco EMA Twistlock Pt ed A mbient * otated 90* Left otated 90* Right	to 800mA *	tacle 1*	MS/DIN MS/X-L MS/X-L MS/X-L MS/X-L MS/X-L MS/X-L MS/L K=Level Al=Arm A15=Arm A15=Arm LCF=L Ig HSS=Fa LWR-LN LWR-LN LWR-LN LWR-LN AHD245 AHD255	-L08-Motion Sensor for Dimm -L20-Motion Sensor for Dimm -L40-Motion Sensor for Dimm 28-Bi-Level Motion Sensor, 9' 20-Bi-Level Motion Sensor, 2' Indicator Included "In Included (15" Straight Arm) ' ht Square Trim Plate Painted t ctory Installed House Side Shi -LumaWatt Pro Wireless Sen -Atter Hours Dim, 5 Hours " -Atter Hours Dim, 7 Hours " -Atter Hours Dim, 7 Hours "	ning Operation, 9' - 2 ning Operation, 21' - aximum 8' Mounting - 20' Mounting Heig ' - 40' Mounting Heig o Match Housing eld 1' sor, Wide Lens for 8'	0' Mounting Helg 40' Mounting Helg I Helght * 1t ¹⁴ pht * - 16' Mounting He	ղլա jht ո	AP=Grey (Standard) B2=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White
Accessories (C	Order Separately)				546			à
OA/RA1013-P OA/RA1014 -N OA/RA1016 - P OA/RA1027 - N OA/RA1027 - N	Surge Module Ra hotocontrol Sho IEMA Photocontr VEMA Photocont VEMA Photocont IEMA Photocontr Single Tenon Ada	riing Cap rol - 120V rol - Multi-Tap rol - 480V		MA1012 MA1013 MA1014 MA1015 MA1016	XX=20 180° Tenon Adapter fo XX=30 120° Tenon Adapter fo XX=4090° Tenon Adapter for XX=2090° Tenon Adapter for XX=20 120° Tenon Adapter fo XX=3090° Tenon Adapter for XX=Single Tenon Adapter for	r 3-1/2" O.D. Tenon 3-1/2" O.D. Tenon 3-1/2" O.D. Tenon r 3-1/2" O.D. Tenon 3-1/2" O.D. Tenon 3-1/2" O.D. Tenon	MA1019-XX=3@ MA1045-XX=4@ MA1048-XX=2@ MA1049-XX=3@ FSIR-100=Wirele LS/HSS=Field In A15=15" Straight	120° Tenon Adapter 90° Tenon Adapter (90° Tenon Adapter (90° Tenon Adapter (90° Tenon Adapter (ss Configuration To stalled House Side S Arm ²²	for 2-3/8° O.D. Tenon for 2-3/8° O.D. Tenon or 2-3/8° O.D. Tenon or 2-3/8° O.D. Tenon or 2-3/8° O.D. Tenon of 2-3/8° O.D. Tenon of for Motion Sensor ³⁰ Shield ²¹ ontrol Module (7-pin) ^{22,4}
2. Customer Is resp 3. Standard 1A driv 4. Requires the use 5. Only for use with Kigh Leg Delta a 6. Consult factory	ponsible for engines ve current. Standard e of an internal step h 480V Wye system: Ind Three Phase Cor for driver surge prot	ring analysis to confi 4000K CCT and mini down transformer wh b. Per NEC, not for use ner Grounded Delta s action values.	m pole and mum 70 CR ien combini ien combini ien combini ien combini ien stati ystems).	l Axture co d with se ounded sy	DLC Premium, refer to www.designi impalibility for all applications. Refe nsor options. Not available with sen stems, impedance grounded system /L is not available with MS/X, MS/DI	rr to our white paper WP ser at 1200mA. Not avail III or corner grounded sy	able in combination v stems (commonly kno	ith the HA high amblent won as Three Phase Thre	e Wire Delta, Three Phase

7. Low-level output varies by number of light equares specified. Consult factory. 2L is not available with MS/X, MS/DIM, DIMRF-LW or DIMRF-LN in combination with 347V or 480V. 2L is available in 4 and 6 light square configurations. No terminal block with 2L options.

Use dedicated IES files for 1000K, 5000K and 5000K when performing layouts. These files are published on the Navion luminaire product page on the website. Extended lead times apply.
A mp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Navion luminaire product page on the website.

10. Only available with dimming driver. Not available with MS, MS/DIM or DIMRF options.

11. Not available with 1200mA.

12. CE is not available with the 1200mA, DIMRF, MS, MS/X, MS/DIM, PER or PER7 options. Available in 120-377V only.

13. Sensor mounted externally. Must specify dimming driver. Consult factory for more information. 14. Sensor mounted externally. Available in 4, 6 or 6 light square configurations. Replace "X" with number of squares in low output mode. For ON/OFF operation, replace "X" with "0", Maximum two squares in low outout mode.

15. 22" upsweep arm. Round pole adapter and mounting hardware included, "M" drill pattern.

16. Round pole adapter and mounting hardware included, "M" drill pattern. 17. Only for use with SL2, SL3, SL4 and AFL distributions. The light square trim plate is painted black when the HSS option is selected.

18. LumaWatt Pro wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information. Not available with PER, PER7, or ZL options.

19. Requires the use of PER or PER7 photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 20. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.

21. One required for each light square.

zz. Replace XX with paint color.

23. Requires 7-pin NEMA twistlock photocontrol receptacle.

LumenSafe Integrated Network Security Camera Technology Options (Add as Sulfix)

Product Family	Camera Type	Data Backhaul	
	D=Dome Camera, Standard H=Dome Camera, Hi-Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card	W=Wi-FI Networking w/ Omni-Directional Antenna E=Ethernet Networking

"Consult LumenSafe system pages for additional details and compatibility.

