EXTERIOR SHUTTERS

PART 1 - PRODUCTS

1.1 WOOD MATERIALS

A. Wood Products: Provide materials that comply with requirements of referenced quality standard for each type of exterior architectural woodwork and quality grade specified unless otherwise indicated.

1. Do not use plain-sawn softwood lumber with exposed, flat surfaces more than 3 inches (76 mm) wide.

2. Wood Moisture Content: 9 to 15 percent.

1.2 ACCEPTABLE MANUFACTURERS

1. Graco thermally modified wood shutters.

METAL ROOF PANELS

PART 1- PRODUCTS

1.1 PANEL DESIGN

1. Roof panels shall be 5V Crimp Metal Galvalume in 24" widths. Panels shall be produced in the Factory only, and panels shall be produced with "striations" to minimize oil-canning.

1.2 ACCEPTABLE MANUFACTURERS

1. McElroy Metals, or similar

A. Exposed Flashing and Trim:

1. Unless otherwise specified, all exposed adjacent flashing and trim shall be of the same material and finish as panel system.

B. Forming: Use continuous end rolling method. No end laps on panels.

C. Trim:

    1. Trim shall be fabricated of the same material and finish to match the profiled sheeting and press broken in lengths of 10 to 12 feet. Trim shall be formed only by the manufacturer or their approved dealer. Trim to be erected in overlapped condition. Use lap strips only as indicated on drawings. Miter conditions shall be factory welded material to match the sheeting.

D. Closures:

    1. Use composition or metal profiled closures at top of each elevation to close ends of the panels. Metal closures to be made in the same material and finish as face sheet.

E. Fasteners:

    1. Fasteners shall be 400 series stainless steel, dished washers stainless steel with bonded neoprene.

F. Zees:

    1. Where required by design, primary structural framing system shall be used to span between beams and/or joists. Thermally responsive base and top clips shall be fastened to the zees on 12" centers

1.5 ROOFING UNDERLAYMENT

    1. On all surfaces to be covered with roofing material, a 40 Mil "Peel & Stick Membrane" will be required as outlined by the metal panel manufacturer. Membrane to be minimum of 40 MIL Thickness, smooth, nongranular, one of the following manufacturers:

        a) W.R. Grace "Ice & Water Shield".

        b) Carlisle: CCW WIP 300HT.

        c) Interwrap: Titanium PSU.

        d) MFM Corp : "Wind & Water Shield".

        e) Polyguard: Deck Guard HT or Polyglas HT.

        f) TAMKO: TW Tile & Metal Underlayment.

        g) Mid-States Asphalt: Quik-Stick HT

    2. Underlayment shall be laid in horizontal layers with joints lapped toward the eaves a minimum of 6", and well secured along laps and at ends as necessary to properly hold the felt in place. All felt shall be preserved unbroken and whole.

3. Ice & Water Shield shall lap all hips and ridges at least 12" to form double thickness and shall be lapped 6" over the metal of any valleys or built-in gutters and shall be installed as required by the Manufacturer to attain the desired 20 Year Weathertightness Warranty.

DOOR HARDWARE

PART 1 - GENERAL

1.1 QUALITY ASSURANCE

A. Regulatory Requirements: Comply with provisions of the following:

1. Where indicated to comply with accessibility requirements, comply with ICC/ANSI A117.1 as follows:

    a. Handles, Pulls, Latches, Locks, and other Operating Devices: Shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist.

    b. Door Closers: Maximum opening-force for interior hinged doors shall not exceed 5 lbs applied perpendicular to door.

    c. Thresholds: Not more than 1/2 inch high. Bevel raised thresholds with a slope of not more than 1:2.

PART 2 - PRODUCTS

2.1 DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in this Section.

2.2 HINGES

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Hinges:

    a. McKinney Products Company; Div. of ESSEX Industries, Inc.

    b. Bommer Industries, Inc.

    c. Hager Companies.

B. Quantity: Provide three hinges per leaf.

C. Hinge Size: Provide 4-1/2" height hinges.

D. Hinge Weight: Unless otherwise indicated, provide the following:

   1. Doors with Closers: Antifriction-bearing hinges.

E. Hinge Base Metal: Unless otherwise indicated, provide the following:

   1. Exterior Hinges: Steel, with steel pin.

F. Hinge Options:

   1. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed for out-swinging exterior doors.

   2. Corners: Square or as required to fit existing frames to be reused.

G. Fasteners: Comply with the following:

   1. Machine Screws: For metal doors and frames. Install into drilled and tapped holes.

   2. Wood Screws: For wood doors and frames.

   3. Screws: Phillips flat-head screws; machine screws (drilled and tapped holes) for metal doors; wood screws for wood doors and frames. Finish screw heads to match surface of hinges.

2.3 LOCKS AND LATCHES

Refer to ANSI chapter 4 (ANSI 404.2.6) for compliance for door accessibility requirements.

2.4 CLOSERS

Refer to ANSI chapter 4 (ANSI 404.2.7) for compliance for door accessibility requirements.

2.5 THRESHOLDS

Refer to ANSI chapter 4 (ANSI 404.2.4) for compliance for door accessibility requirements.

PHENOLIC-CORE TOILET COMPARTMENTS

PART 1 - GENERAL

A. Pressure treated plywood compartments with corrugated metal on each side of plywood. Trimmed with pressure treated wood.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Toilet-Enclosure Style: Floor and wall anchored.

B. Urinal-Screen Style: Wall hung.

C. Door and Panel Construction: Solid pressure treated plywood with corrugated metal on each side of plywood.

2.3 HARDWARE AND ACCESSORIES

A. Hardware and Accessories: Manufacturer's standard operating hardware and accessories.

    1.   Material: Clear-anodized aluminum.

    2.   Provide units that comply with regulatory compartments designated as accessible.

B. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel, finished to match the items they are securing, with theft-resistant-type heads. Provide sex- type bolts for through-bolt applications. For concealed anchors, use stainless-steel, hot-dip galvanized-steel, or other rust-resistant, protective-coated steel compatible with related materials.

TOILET ACCESSORIES

PART 1- PRODUCTS

1.1 PUBLIC-USE WASHROOM ACCESSORIES

A. Toilet Tissue (Roll) Dispenser

    1.   Description: Double-roll dispenser with shelf.

    2.   Manufacturer: American Specialties, Model No. 0697

    3.   Mounting: Partition mounted, serving two adjacent toilet compartments or [Surface mounted as indicated in the drawings.

    4.   Operation: Non-control delivery with standard spindle.

    5.   Capacity: Designed for two - 4-1/2- or 5-inch- (114- or 127-mm-)] diameter tissue rolls.

    6.   Material and Finish: Stainless steel, No. 4 finish satin

B. Paper Towel (Roll) Dispenser

1. Description: Recessed Paper Towel Dispenser is self-feeding, until supply is depleted.

2. Manufacturer: American Specialties, Model No. 0457

3. Mounting: Recessed. For compliance with ADA Guidelines, paper towel slot should be 54"
   maximum above floor if clear floor side reach access is provided or 48" maximum above
   finished floor if clear floor forward reach access only is provided.

4. Minimum Capacity: 475 standard multi-fold or 350 standard C-fold paper towels.

5. Material and Finish: Alloy 18-8 stainless steel, type 304, 22 gauge. No. 4 satin finish.

6. Lockset: Tumbler type.

C. Waste Receptacle

1. Mounting: Self-closing disposal-opening cover, Freestanding.

2. Material and Finish: Stainless steel, No. 4 finish (satin)

D. Liquid-Soap Dispenser:

1. Description: Designed for dispensing antibacterial soap in liquid or lotion form.

2. Manufacturer: American Specialties, Model No. 0347

3. Mounting: Surface Mounted.

4. Maximum Capacity: 40 fluid oz.

5. Material and Finish: 20 gauge stainless steel, alloy 18-8 type 304. No. 4 satin finish

6. Refill Indicator: Window type.

E. Grab Bar

1. Mounting: Flanges with concealed fasteners.

2. Manufacturer: American Specialties, Model No. 3800

3. Material: Stainless steel, 0.05 inch (1.3 mm) thick. Finish: Smooth, No. 4 finish (satin) on
   ends and slip-resistant texture in grip area.

4. Outside Diameter: 1-1/2 inches (38 mm).

5. Configuration and Length: As indicated on Drawings

F. Sanitary-Napkin Disposal Unit:

1. Mounting: Surface mounted.

2. Door or Cover: Self-closing, disposal-opening cover

3. Receptacle: Removable.

4. Material and Finish: Stainless steel, No. 4 finish (satin)

G. Mirror Unit:

1. Frame: Stainless-steel channel per manufacturer's standard, size indicated on drawings.

2. Hangers: Produce rigid, tamper- and theft-resistant installation.

3. Manufacturer: American Specialties, Model No. 0620

1.2 CHILDCARE ACCESSORIES

A. Diaper-Changing Station:

1. Description: Surface Mounted Unit that opens by folding down from stored position and with child protection strap. Engineered to support minimum of 250-lb static load when opened.

2. Mounting: Surface mounted, with unit projecting not more than 4 inches (100 mm) from wall when closed.

3. Operation: By pneumatic shock-absorbing mechanism.

4. Material and Finish: HDPE with plastic-laminate insert in color selected by Owner.

5. Liner Dispenser: Built in.

6. Manufacturer: American Specialties, Model No. 9014

1.3 UNDERLAVATORY GUARDS

1. Description: Insulating pipe covering for supply and drain piping assemblies that prevents direct contact with and burns from piping; allow service access without removing coverings.

2. Material and Finish: Antimicrobial, molded plastic, white.

1.4 WARM-AIR DRYERS

1. Description: Standard-speed, warm-air hand dryer.

2. Mounting: Surface Mounted, with low profile design.

3. Operation: Electronic sensor activated with timed power cut off switch.

    a. Operation time 60-90 seconds

4. Cover Material and Finish: Steel with white enamel finish.

5. Manufacturer: Bobrick, Model No. B-7180

PLUMBING FIXUTRES

PART 1 - GENERAL

A. Fixtures shall have smooth impervious surfaces, free from defects with no concealed fouling surfaces, and be Grade-A quality. The name or trademark of the manufacturer is required to be printed on or pressed into the fixtures. In addition, a label which cannot be removed without destroying it, containing the manufacturer's name or trademark, and the quality or class of the fixture, per ASME A112.19, shall be affixed to fixtures and not removed until after the work is accepted.

B. Exposed waste and supply piping, including piping exposed when millwork doors are open, and mounting bolts of fixtures shall be chromium-plated.

C. All faucets, flush valves, and associated trim shall be chromium-plated.

D. Fixtures and trim of the same construction shall be by the same manufacturer, e.g., vitreous china, water fountains, stainless steel, flush valves, and supplies, etc., unless otherwise specified herein.

E. Vitreous china fixtures shall be white.

F. Plumbing fixtures shall be complete, with installation, and all fittings, trim, and equipment to provide for proper operation and usage, as defined by the product manufacturers, industry standards, and applicable codes.

PART 2 - PRODUCTS

2.1 WATER CLOSETS AND TRIM

A. Fixtures: Water Closet - Floor Type, Flush Valve, ADA Use:

    a.   Elongated vitreous china floor type, with siphon jet bowl, flush valve and trim for 1.6 gal per flush, minimum 18" high rim, seat, bolts, caps with retainer clips, and 12" rough-in.

    b.   Manufacturer: Sloan, Model No. ST-2009

B. Flush Valves: Sensor, Battery, 1.6 GPF, Regular/ADA Use:

    a.   1.6 gal per flush with sweat solder adapter kit, back-check angle stop valve, vacuum breaker, and battery-powered infrared sensor for automatic operation, batteries, and mechanical override button.

    b.   Manufacturer shall be same as Water Closet manufacturer: Sloan, Model No. SLOAN 8111

C. Water Closet Seats: Elongated, Heavy Weight:

    a.   Solid high impact plastic with open front seat, stainless steel posts, washers and nuts, check hinges, and antimicrobial agent.

    b.   Manufacturer: Kohler, Model No. K-4731-C

2.2 LAVATORIES AND TRIM

A. Fixtures: Lavatory - Wall Type, ADA Use:

    a.   Vitreous china lavatory, 20"x18", with 4" centers and fitted with faucet, supplies with stop valves, grid drain, P-trap, waste to wall, escutcheons, and wall hanger. floor-mounted carrier.

    b.   Manufacturer: Kohler, Model No. K-1728

B. Faucets: Electronic, Battery, Curved Spout, Regular/ADA Use:

   a. Electronic type with polished chromium-plated brass body, self-adjusting battery type infrared sensor, vandal resistant curved spout, base plate for 4" centers, and 0.5 gpm vandal resistant aerator flow control. 1.5 gpm vandal resistant aerator flow control. 1.5 gpm vandal resistant laminar flow control. Provide each faucet with an ASSE-1070 water mixing valve for nominal 104°F outlet temperature, cold and hot water inlets, integral checks, waterproof electronics with 10 sec wash cycle, a 2 sec maximum run-on time, batteries, and installation hardware. The assembly shall comply with ASME A112.18.1/CSA B125.1-2012 and ICC A117.1-2009.

   b. Manufacturer: Zurn, Model No. Z6915-XL

C. Supplies: Wheel Handle Control:

   a. Angle stops with 0.5" id x 5" inlet sweat tube, bell escutcheon, wheel handle control, 0.375" od x 12" flexible tube riser, and chromium-plated exposed piping and parts.

   b. Manufacturer: Zurn Z8808XL-LR.

D. Drains: Type

   a. Grid type with chromium-plated cast brass top and strainer, and 1.25" 17 gauge tailpiece.

   b. Manufacturer: Zurn Z8743-PC.

E. P-traps: 1.25", Cleanout Plug

   a. 1.25" tubular chromium-plated brass, with cast brass slip nuts, cleanout plug, minimum 2" water seal, 17 gauge tubing drain to wall, and wall flange.

   b. Manufacturer: Zurn Z8701-9.

F. ADA Insulation: ADA Fixtures

   a. White molded closed-cell vinyl, 3-piece set for drain tailpiece, P-trap, and waste arm to wall, and two 2-piece sets for the cold and hot water supply stops, and risers.

   b. Manufacturer: Insul-Tect I-T 101 and/or I-T 102, McGuire PW2125 and/or PW2150, Plumberex Handy-Shield MaXX, Pro Flo PF202WH, or Truebro 102 E-Z.

G. Floor-mounted Carriers:

   1. For wall-hung lavatories: floor-mounted commercial type, with concealed arm supports.

       a. Manufacturer: Zurn.

2.3 URINALS AND TRIM

A. Fixtures: Urinal - Wall Type, 0.5 GPF, Regular/ADA Use:

   a. Vitreous china wall type with washout bowl, extended shields, flushing rim, top spud
       flush valve and trim for 0.125 gal per flush, and floor-mounted carrier.

   b. Manufacturer: Sloan, Model No. SU-1009-A

B. Flush Valves: Sensor, Battery, 0.125 GPF, Regular/ADA Use:

   c. 0.125 gal per flush with sweat solder adapter kit, back-check angle stop valve,
       vacuum breaker, and battery-powered infrared sensor for automatic operation,
       batteries, and mechanical override button.

   d. Manufacturer shall be same as urinal manufacturer: Sloan, Model No. S3790073

C. Floor-mounted Carriers: Commercial Type:

   a. For wall-hung urinals: dual post with cross bracing, floor-mounted pads, and hanger
       plates.

   b. Manufacturer: Zurn.

INTERIOR LIGHTING

PART 1 - PRODUCTS

1.1 MANUFACTURERS

A. Lithonia Lighting

1.2 LUMINAIRES

A. Ceiling and wall mounted.

    1.   Model No. LDN6CYL

B. Exterior Wall Mounted.

    2.   Model No. OLLWU

1.3 LAMPS

A. Manufacturers:

    1.   GE Lighting: www.gelighting.com.

    2.   Philips Lighting Co of NA: www.lighting.philips.com.

    3.   Sylvania: www.sylvania.com

B. Lamp Types: As specified for each luminaire.

LITHONIA LIGHTING®

LDN6CYL

6" CYLINDER
Non-IC

nLight *WET LOCATION™* *DIMMABLE LED*

ENERGY STAR *CSA+ CAPABLE*

FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Heavy-gauge aluminum housing.

Ceiling mount for direct installation to 4" octagonal or square junction box.

Pendant mount entry for 3/8" National Pipe Thread stem; wires supplied by others.

Textured polyester powder paint finish standard.

Multiple ceiling, pendant, cord, and wall mount options available.

OPTICS — LEDs are binned to a 3-step SDCM; 80 CRI minimum.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

347V available option; transformer must be field-installed to an accessible remote-mounted junction box.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

70% lumen maintenance at 50,000 hours.

LISTINGS — Certified to US and Canadian safety standards. Damp location standard (wet location, covered ceiling optional). ENERGY STAR® certified product.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/CustomerResources/Terms__and_conditions.aspx

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

A+ Capable options indicated by this color background.

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: LDN6CYL 35/15 LO6AR LSS MVOLT EZ1 FCM DWHG

LDN6CYL

Series		Color temperature		Lumens		Aperture/Trim Color				Finish		Voltage	
LDN6CYL	6" cylinder	27/	2700K	05	500 lumens	LO6	Downlight	AR	Clear	LSS	Semi-specular	MVOLT	Multi-volt
		30/	3000K	10	1000 lumens	LW6[1]	Wallwash	WR[2]	White	LD	Matte diffuse	120	120V
		35/	3500K	15	1500 lumens			BR[2]	Black	LS	Specular	277	277V
		40/	4000K	20	2000 lumens								
		50/	5000K	25	2500 lumens								
				30	3000 lumens								
				40	4000 lumens								
				50	5000 lumens								

Driver[3]		Mounting		Options[6]		Architectural Colors[10,11]	
GZ10	0-10V driver dims to 10%	FCM	Ceiling mount	SF[6]	Single fuse	DWHG	Matte white
GZ1	0-10V driver dims to 1%	WM	Wall mount	NPP16D[7,8]	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1).	DDB	Dark bronze
EZ10	0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 10%	PM[4]	Pendant 3/8" thread mount			DBL	Black
		ACC[5]	10ft aircraft cable and cord mount	NPP16DER[7,8]	nLight® network power/relay pack with 0-10V dimming for non-eldoLED drivers (GZ10, GZ1). ER controls fixtures on emergency circuit.	DWH	Glossy white
		ACC180[5]	15ft aircraft cable and cord mount			DMB	Medium bronze
EZ1	0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%			NPS80EZ[7,8]	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1).	DNA	Natural aluminum
				NPS80EZER[7,8]	nLight® dimming pack controls 0-10V eldoLED drivers (EZ10, EZ1). ER controls fixtures on emergency circuit.	DSS	Sandstone
						DGC	Charcoal grey
				WL[9]	Wet location	DTG	Tennis green
						DBR	Bright red
						DSB	Steel blue

Notes
1 Not available in ACC mount.
2 Not available with finishes.
3 Refer to TECH-240 for compatible dimmers.
4 Supplied with 10" supply and dimming connections.
5 White cord supplied with white housings. All other finishes supplied with black cord.
6 Must specify voltage 120 or 277V.

7 Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed.
8 Interface remote mounted. Access panel (supplied by others) recommended.
9 Not available with ACC & ACC180 mounting options.
10 Additional architectural colors available; see www.lithonia.com/archcolors.
11 Color and length of stem must be specified (from 6" to 240" in even increments in maximum sections of 48").
   Ex.: CYS06 DWHG. Ceiling attachment for interior use. Consult factory for exterior.
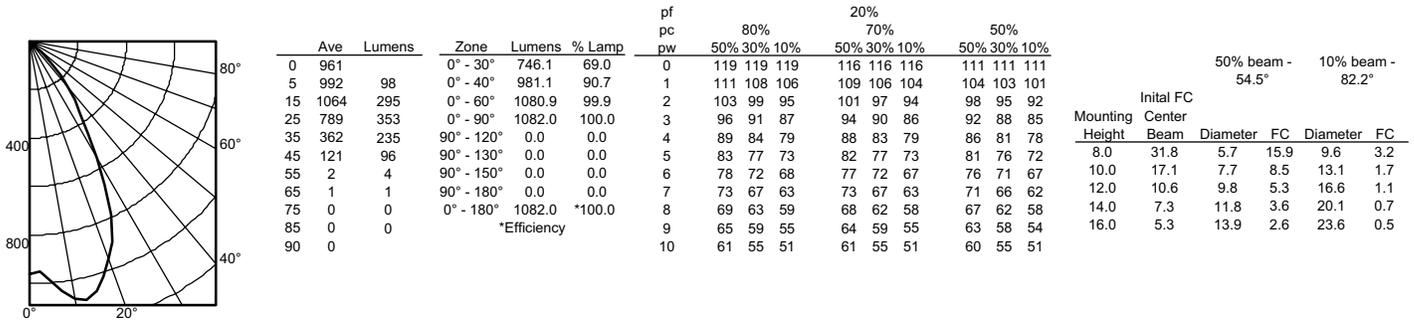12 Must be field-installed to an accessible remote-mounted junction box.

LDN6CYL

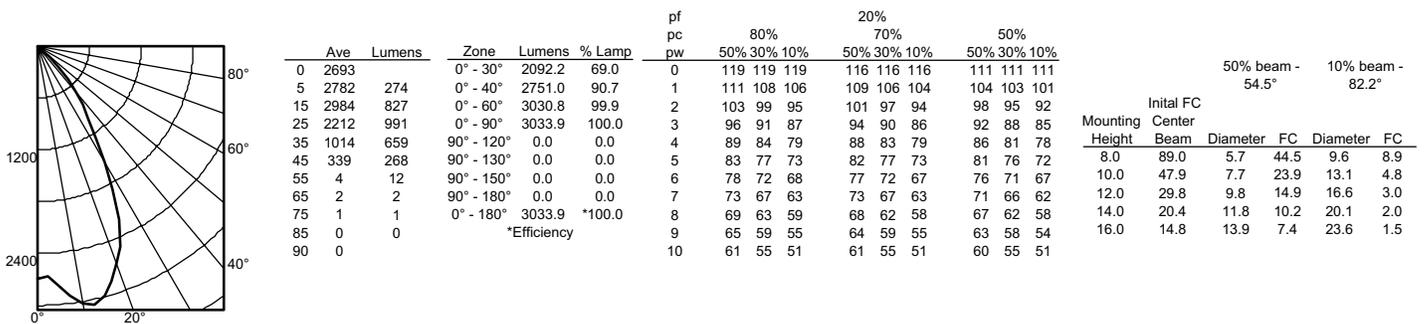|	
Accessories: *Order as separate catalog number. (shipped separately)*	
CYS[11]	3/8" stem and canopy with 5° "hang straight" swivel
CRS[11]	3/8" stem and canopy with 45° swivel
SDT 347/120 75VA[12]	347V Step-down transformer

PHOTOMETRY

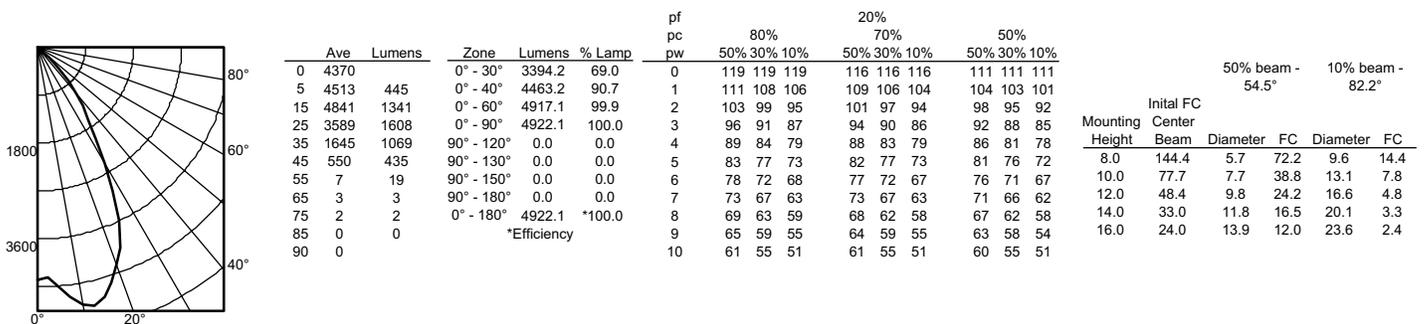| Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire

LDN6 35/10 LO6AR, input watts: 12.75, delivered lumens: 1082, LM/W = 84.86, spacing criterion at 0= 1.02, test no. ISF 30716P31.

Distribution Data:

	Ave	Lumens
0	961	
5	992	98
15	1064	295
25	789	353
35	362	235
45	121	96
55	2	4
65	1	1
75	0	0
85	0	0
90	0	

Output Data:

Zone	Lumens	% Lamp
0° - 30°	746.1	69.0
0° - 40°	981.1	90.7
0° - 60°	1080.9	99.9
0° - 90°	1082.0	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	1082.0	*100.0
*Efficiency		

Coefficient of Utilization:

pf pc pw	80% 50%	30%	10%	20% 70% 50%	30%	10%	50% 50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	111	108	106	109	106	104	104	103	101
2	103	99	95	101	97	94	98	95	92
3	96	91	87	94	90	86	92	88	85
4	89	84	79	88	83	79	86	81	78
5	83	77	73	82	77	73	81	76	72
6	78	72	68	77	72	67	76	71	67
7	73	67	63	73	67	63	71	66	62
8	69	63	59	68	62	58	67	62	58
9	65	59	55	64	59	55	63	58	54
10	61	55	51	61	55	51	60	55	51

Illuminance Data: 50% beam - 54.5°, 10% beam - 82.2°

Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	31.8	5.7	15.9	9.6	3.2
10.0	17.1	7.7	8.5	13.1	1.7
12.0	10.6	9.8	5.3	16.6	1.1
14.0	7.3	11.8	3.6	20.1	0.7
16.0	5.3	13.9	2.6	23.6	0.5

LDN6 35/30 LO6AR, input watts: 34.69, delivered lumens: 3033.9, LM/W = 87.45, spacing criterion at 0= 1.02, test no. ISF 30716P22.

Distribution Data:

	Ave	Lumens
0	2693	
5	2782	274
15	2984	827
25	2212	991
35	1014	659
45	339	268
55	4	12
65	2	2
75	1	1
85	0	0
90	0	

Output Data:

Zone	Lumens	% Lamp
0° - 30°	2092.2	69.0
0° - 40°	2751.0	90.7
0° - 60°	3030.8	99.9
0° - 90°	3033.9	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	3033.9	*100.0
*Efficiency		

Coefficient of Utilization:

pf pc pw	80% 50%	30%	10%	20% 70% 50%	30%	10%	50% 50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	111	108	106	109	106	104	104	103	101
2	103	99	95	101	97	94	98	95	92
3	96	91	87	94	90	86	92	88	85
4	89	84	79	88	83	79	86	81	78
5	83	77	73	82	77	73	81	76	72
6	78	72	68	77	72	67	76	71	67
7	73	67	63	73	67	63	71	66	62
8	69	63	59	68	62	58	67	62	58
9	65	59	55	64	59	55	63	58	54
10	61	55	51	61	55	51	60	55	51

Illuminance Data: 50% beam - 54.5°, 10% beam - 82.2°

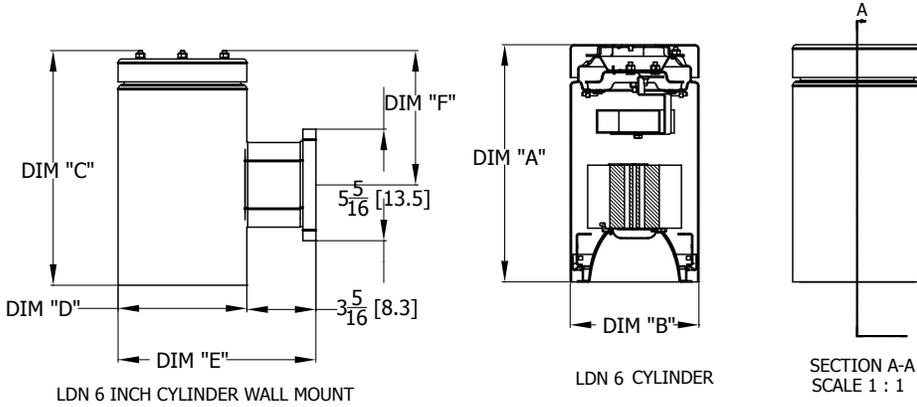| Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	89.0	5.7	44.5	9.6	8.9
10.0	47.9	7.7	23.9	13.1	4.8
12.0	29.8	9.8	14.9	16.6	3.0
14.0	20.4	11.8	10.2	20.1	2.0
16.0	14.8	13.9	7.4	23.6	1.5

LDN6 35/50 LO6AR, input watts: 55.56, delivered lumens: 4922.1, LM/W = 88.59, spacing criterion at 0= 1.02, test no. ISF 30716P40.

Distribution Data:

	Ave	Lumens
0	4370	
5	4513	445
15	4841	1341
25	3589	1608
35	1645	1069
45	550	435
55	7	19
65	3	3
75	2	2
85	0	0
90	0	

Output Data:

Zone	Lumens	% Lamp
0° - 30°	3394.2	69.0
0° - 40°	4463.2	90.7
0° - 60°	4917.1	99.9
0° - 90°	4922.1	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	4922.1	*100.0
*Efficiency		

Coefficient of Utilization:

pf pc pw	80% 50%	30%	10%	20% 70% 50%	30%	10%	50% 50%	30%	10%
0	119	119	119	116	116	116	111	111	111
1	111	108	106	109	106	104	104	103	101
2	103	99	95	101	97	94	98	95	92
3	96	91	87	94	90	86	92	88	85
4	89	84	79	88	83	79	86	81	78
5	83	77	73	82	77	73	81	76	72
6	78	72	68	77	72	67	76	71	67
7	73	67	63	73	67	63	71	66	62
8	69	63	59	68	62	58	67	62	58
9	65	59	55	64	59	55	63	58	54
10	61	55	51	61	55	51	60	55	51

Illuminance Data: 50% beam - 54.5°, 10% beam - 82.2°

Mounting Height	Inital FC Center Beam	Diameter	FC	Diameter	FC
8.0	144.4	5.7	72.2	9.6	14.4
10.0	77.7	7.7	38.8	13.1	7.8
12.0	48.4	9.8	24.2	16.6	4.8
14.0	33.0	11.8	16.5	20.1	3.3
16.0	24.0	13.9	12.0	23.6	2.4

LDN6CYL

* All dimensions are inches (centimeters) unless otherwise noted.

DIM "F"

5 5/16 [13.5]

DIM "C"

DIM "D"

3 5/16 [8.3]

DIM "E"

LDN 6 INCH CYLINDER WALL MOUNT

DIM "A"

DIM "B"

LDN 6 CYLINDER

A

SECTION A-A
SCALE 1 : 1

DIMENSION TABLE							
LUMEN OUTPUT	STYLE	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"	DIM "F"
500-3000 LM	CEILING MOUNT (FCM)	11 5/16	8 1/8				
500-3000 LM	CEILING MOUNT WET LOCATION (FCM WL)	11 5/16	8 1/8				
500-3000 LM	PENDANT MOUNT (PM)	10 1/2	8 1/8				
500-3000 LM	PENDANT MOUNT WET LOCATION (PM WL)	11 1/2	8 1/8				
500-3000 LM	CABLE MOUNT (ACC)	10 5/16	8 1/8				
500-3000 LM	WALL MOUNT (WM)			10 1/16	8 1/8	11 1/2	6 3/8
500-3000 LM	WALL MOUNT WET LOCATION (WM WL)			11 3/16	8 1/8	11 1/2	6 3/8
4000-5000 LM	CEILING MOUNT (FCM)	11 3/8	10 1/4				
4000-5000 LM	CEILING MOUNT WET LOCATION (FCM WL)	11 3/8	10 1/4				
4000-5000 LM	PENDANT MOUNT (PM)	10 3/4	10 1/4				
4000-5000 LM	PENDANT MOUNT WET LOCATION (PM WL)	11 1/2	10 1/4				
4000-5000 LM	CABLE MOUNT (ACC)	10 3/8	10 1/4				
4000-5000 LM	WALL MOUNT (WM)			10 1/16	10 1/4	13 1/2	6 3/8
4000-5000 LM	WALL MOUNT WET LOCATION (WM WL)			11 3/16	10 1/4	13 1/2	6 3/8

LUMEN OUTPUT MULTIPLIERS - FINISH			
	Clear (AR)	White (WR)	Black (BR)
Specular (LS)	1.0	N/A	N/A
Semi-specular (LSS)	0.950	N/A	N/A
Matte diffuse (LD)	0.85	N/A	N/A
Painted	N/A	0.87	0.73

LDN6CYL SPECULAR FINISH			
Target Lumen	Lumens @ 3500K	Wattage	LPW
500	662.2	7.6	87.5
1000	1082.0	12.8	84.9
1500	1606.0	20.5	78.4
2000	2023.0	22.6	89.5
2500	2529.5	27.1	93.3
3000	3034.0	34.7	87.4
4000	3977.5	44.1	90.3
5000	4922.2	55.5	88.7

LUMEN OUTPUT MULTIPLIERS - CCT					
	2700K	3000K	3500K	4000K	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

ADDITIONAL DATA

COMPATIBLE 0-10V WALL-MOUNT DIMMERS		
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron®	Diva® DVTV	
	Diva® DVSCTV	
	Nova T® NTFTV	
	Nova® NFTV	
Leviton®	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	
	IllumaTech® IP7 Series	
Synergy®	ISD BC	RDMFC
	SLD LPCS	
	Digital Equinox (DEQ BC)	
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V)	
	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis 0A2000FAMU	
Honeywell	EL7315A1019	EL7305A1010 (optional)
	EL7315A1009	
HUNT Dimming	Preset slide: PS-010-IV and PS-010-WH	
	Preset slide: PS-010-3W-IV and PS-010-3W-WH	
	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V	
	Preset slide, controls FD-010: PS-IFC-010-3W-IV and PS-IFC-010-3W-WH-120/277V	
	Remote mounted unit: FD-010	
Lehigh Electronic Products	Solitaire	PBX
PDM Electrical Products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DALInet Router
WattStopper®	LS-4 used with LCD-101 and LCD-103	

nCM PDT 9 · nPODM 2P DX · nPS 80 EZ · nPS 80 EZ · nCM ADCX · OPTIONAL

WIRING KEY
CAT-5e Cable · Line Power · Low Voltage Dimming Wires
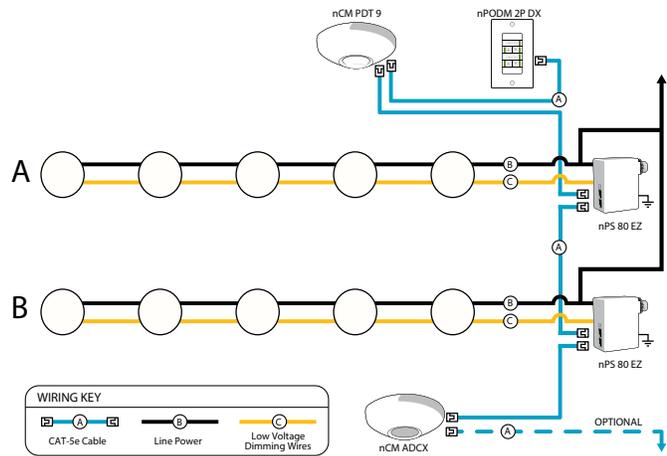
nLight® Control Accessories:
Order as separate catalog number.
Visit www.sensorswitch.com/nLight for complete listing of nLight controls.

WallPod stations	Model number	Occupancy sensors	Model number
On/Off	nPODM [color]	Small motion 360°, ceiling (PIR / dual tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPODM DX [color]	Large motion 360°, ceiling (PIR / dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX [color]	Wide view (PIR / dual tech)	nWV 16 / nWV PDT 16
Photocell controls	**Model number**	Wall Switch w/ Raise/Lower (PIR / dual tech)	nWSX LV DX / nWSX PDT LV DX
Dimming	nCM ADCX	**Cat-5 cables (plenum rated)**	**Model number**
		10', CAT5 10FT	CAT5 10FT J1
		15', CAT5 15FT	CAT5 15FT J1

⌇A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks when ordered with drivers marked by a shaded background*
- This luminaire is part of an A+ Certified solution for nLight control networks, providing advanced control functionality at the luminaire level, when selection includes driver and control options marked by a shaded background*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

![LITHONIA LIGHTING®]

Outdoor General Purpose

OLLWD & OLLWU

LED WALL CYLINDER LIGHT

[LED]

FEATURES & SPECIFICATIONS

INTENDED USE

Provides years of maintenance-free illumination for outdoor use in residential & commercial applications. Ideal for applications such as lighting walkways and stairways for safety and security.

CONSTRUCTION

Cast-aluminum housing with corrosion-resistant paint in either dark bronze or white finish.

ADA compliant.

OPTICS

4000K CCT LEDs.

Polycarbonate lens protects the LED from moisture, dirt and other contaminants.

LUMEN MAINTENANCE: The LED will deliver 70% of its initial lumens at 50,000 hour average LED life. See Lighting Facts label on page 2 for performance details.

ELECTRICAL

MVOLT driver operates on any line voltage from 120-277V

Operating temperature -30ºC to 40ºC.

1KV surge protection standard.

INSTALLATION

Surface mounts to universal junction box (provided by others).

LISTINGS

UL Listed to U.S. and Canadian safety standards for wet locations.

Tested in accordance with IESNA LM-79 and LM-80 standards.

WARRANTY — 5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms__and__conditions.aspx

Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

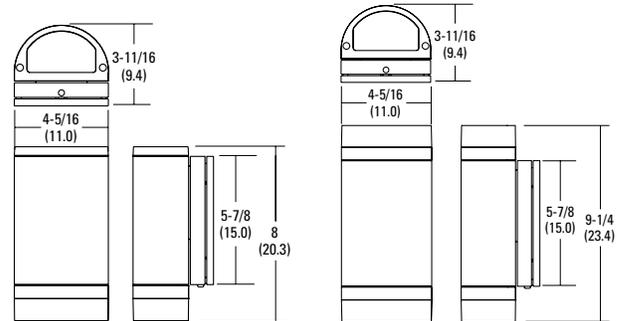Note: Specifications subject to change without notice.

Specifications

All dimensions are inches (centimeters)

ORDERING INFORMATION	For shortest lead times, configure products using **bolded options**.			**Example:** OLLWD LED P1 40K MVOLT DDB	

Series		Performance Package	Color temperature (CCT)		Voltage		Finish	
OLLWD LED	Downlight	**P1**	**40K**	4000K	**MVOLT**	120V-277V	**DDB**	Dark bronze
OLLWU LED	Up & downlight				**120**	120V[1]	**WH**	White

Notes
1   Only available with OLLWU and in DDB.