

Luminaire Schedule					
Symbol	Qty	Label	Arrangement	LLF	Description
□	1	S1 DSX1 LED P5 30K 70CRI T5W	SINGLE	0.800	DSX1 LED P5 30K 70CRI T5W
□	6	W1 ARCI LED P2 30K	SINGLE	0.800	ARCI LED P2 30K

Luminaire Location Summary			
Label	Mounting Height	Orient	Tilt
S1 DSX1 LED P5 30K	15	270	0
W1 ARCI LED P2 30K	8.5	90	0
W1 ARCI LED P2 30K	8.5	0	0
W1 ARCI LED P2 30K	8.5	0	0
W1 ARCI LED P2 30K	8.5	180	0
W1 ARCI LED P2 30K	8.5	180	0
W1 ARCI LED P2 30K	8.5	180	0

File # PPR2421

DRAWN BY: BDB JOB DATE: 9/5/2024  
 APPROVED: JPF JOB NUMBER: 201662.07  
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 CAD FILE: \\hrgreen.com\HRGData\2020\201662.07\CAD\dwgs\Working\Elec Site

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 SANITARY SEWER LIFT STATION  
 DESIGN & PERMITTING SERVICES  
 EL PASO COUNTY  
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### ARC1 LED Architectural Wall Luminaire



**Specifications**

- Depth (D1): 6.5"
- Depth (D2): 4.75"
- Height: 5"
- Width: 11"
- Weight: 7 lbs (without options)

**Introduction**

The Lithonia Lighting ARC LED wall-mounted luminaires provide both architectural styling and visually comfortable illumination while providing the high energy savings and low initial costs for quick financial payback. ARC1 delivers up to 3,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. The compact size of ARC1, with its integrated emergency battery backup option, is ideal for over-the-door applications.

#### ARC LED Family Overview

Luminaire	Standard EM, 4W	Col EM, 20°C	P1	P2	P3	P4	P5
ARC1 LED	4W	—	1,500	2,000	3,000	—	—
ARC2 LED	4W	8W	1,500	2,000	3,000	—	6,500

#### Ordering Information

EXAMPLE: ARC1 LED P2 40K MVOLT PE DDBX2

Series	Package	Color Temperature	Voltage	Options	Finish
ARC1 LED	P1	30K	3000K	MVOLT	EBN
	P2	40K	4000K	347	BLD
	P3	50K	5000K		DNW

#### Accessories

1. 347V not available with EBN.  
2. 347V not available with DMS.

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#### Performance Data

##### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configuration not listed here.

Performance Package	System Watts	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1	11W	1,376	127	0	0	0	1,454	134	0	0	0	1,464	135	0	0	0
P2	17W	2,035	121	1	0	1	2,151	128	1	0	1	2,165	129	1	0	1
P3	25W	2,839	117	1	0	1	3,021	123	1	0	1	3,041	124	1	0	1

#### Electrical Load

Performance Package	System Watts	120V	208V	240V	277V	347V
P1	11W	0.111	0.081	0.063	0.041	0.045
P2	17W	0.139	0.081	0.071	0.043	0.040
P3	25W	0.208	0.122	0.108	0.067	0.061

#### Lumen Output in Emergency Mode (4000K, 80 CRI)

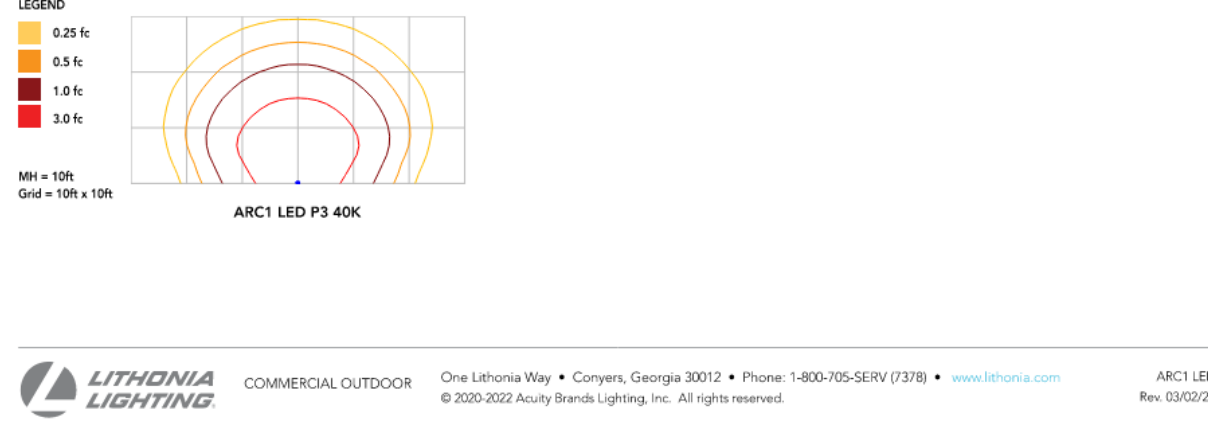
System	Lumens
EBN	630

#### Lumen Ambient Temperature (LAT) Multipliers

Ambient	Lumen Multiplier
0°C	1.04
10°C	1.02
20°C	1.01
25°C	1.00
30°C	0.99
40°C	0.97

#### Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting ARC LED homepage.



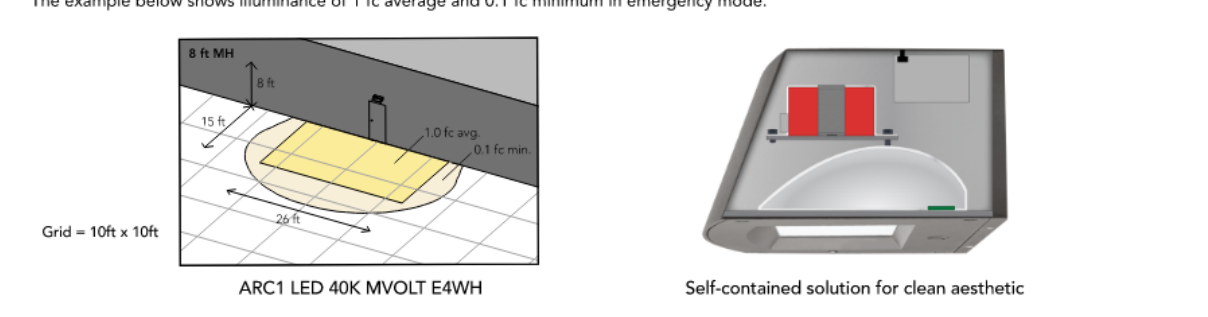
#### Emergency Egress Options

##### Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90 minutes.

Applicable codes: NFPA 70/NEC - section 700.16, NFPA 101 Life Safety Code Section 7.9

The example below shows illumination of 1 fc average and 0.1 fc minimum in emergency mode.



#### Mounting, Options & Accessories

##### E4WH - 4W Emergency Battery Backup

D = 6.5"  
H = 5"  
W = 11"

##### BBW - Standard Back Box

D = 1.5"  
H = 4"  
W = 5.5"

For surface conduit applications.  
3/4" conduit entry holes.

#### FEATURES & SPECIFICATIONS

##### INTENDED USE

The clean architectural shape of the ARC LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long-life LED driver inside the luminaire greatly reduces maintenance.

##### CONSTRUCTION

The die-cast aluminum housing and door act as heat sinks to optimize thermal transfer from the light engine and driver to maximize long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.


##### FINISH

Exterior painted parts are protected by a zinc-influenced Super-Durable TOC thermoplastic powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mil thickness for a finish that can withstand extreme climate change without cracking or peeling. Standard Super-Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

##### OPTICS

Recessed lens to see out of high angle light and reduce glare. Combination of textured lens and reflector design has low surface brightness creating a visually comfortable environment with great distribution. LED's fully hidden from view to minimize glare and reflection and harsh glare. The ARC LED has zero uplight and qualifies as a Nighttime Friendly™ product, meeting 1:6 consistent with the LEDGP and Green Glides™ criteria for eliminating unwanted uplight.

### D-Series Size 1 LED Area Luminaire



**Specifications**

- EPA: 0.69 ft<sup>2</sup> (0.064 m<sup>2</sup>)
- Length: 32.71" (831 mm)
- Width: 14.25" (362 mm)
- Height H1: 7.88" (200 mm)
- Height H2: 2.73" (69 mm)
- Weight: 34 lbs (15.4 kg)

**Introduction**

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

#### Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DDBX2


Series	LEDs	Color Temperature	Color Rendering Index	Mounting
DSX1 LED	P1	30K	90CRI	SPA
	P2	40K	90CRI	T3M
	P3	50K	90CRI	IRN

#### Shield Accessories

External Glare Shield (EGSR)  
House Side Shield (HS)

#### Drilling

HANDHOLE ORIENTATION



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EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DDBX2

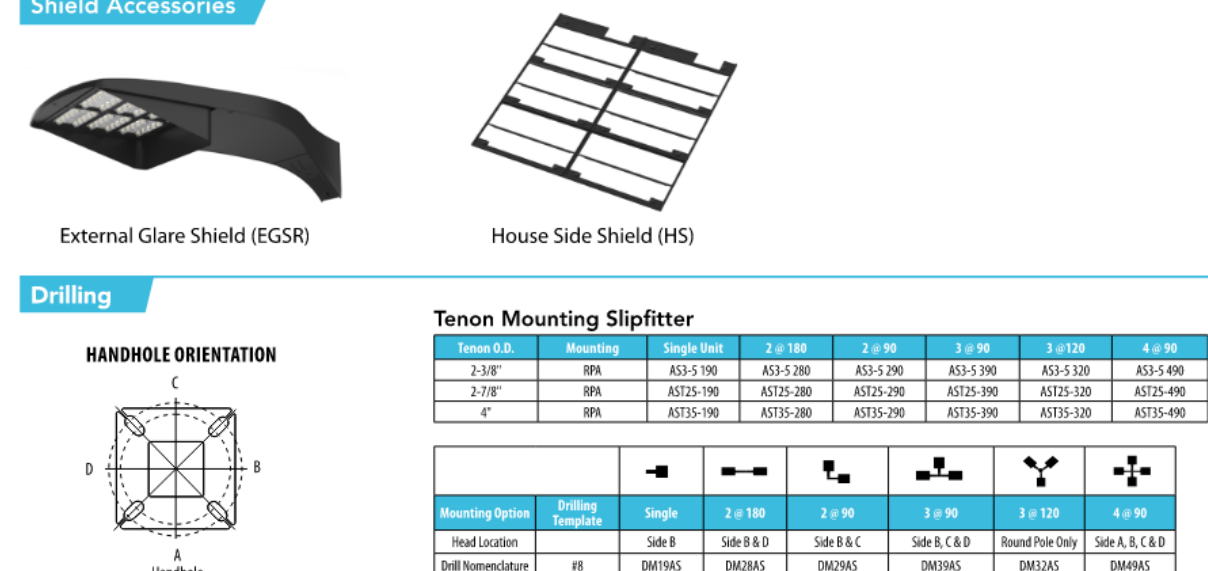
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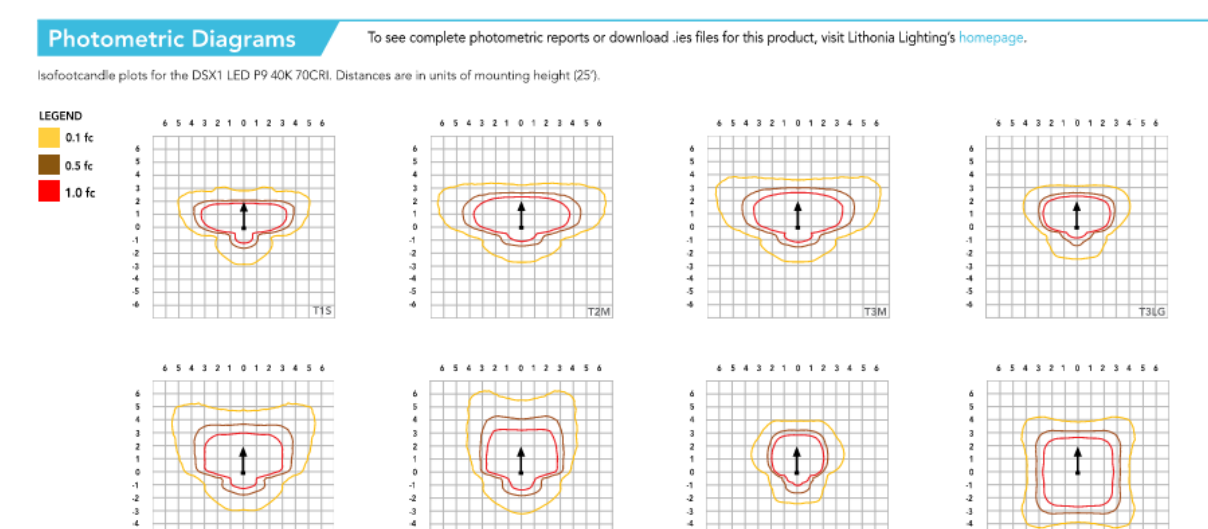
#### Tenon Mounting Slipfitter

Mounting Type	Slipfitter	2-1/8"	2-1/4"	2-1/2"	2-3/4"	3-1/8"	3-1/2"	3-3/4"	4-1/8"	4-1/2"
SPR	SPR	403-170	403-180	403-190	403-200	403-210	403-220	403-230	403-240	403-250
SPR	SPR	403-170	403-180	403-190	403-200	403-210	403-220	403-230	403-240	403-250
SPR	SPR	403-170	403-180	403-190	403-200	403-210	403-220	403-230	403-240	403-250

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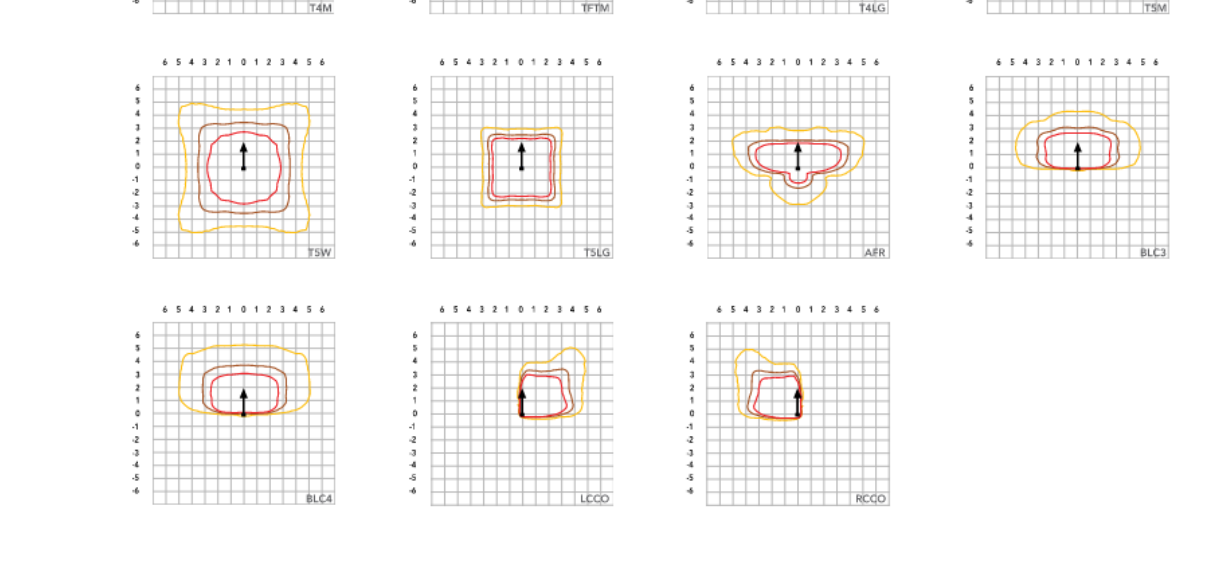
#### Photometric Diagrams

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#### DSX1 Area Luminaire - EPA

Includes luminaire and integrated mounting arm. Other tenon arms, brackets or other accessories are not included in this EPA data.

Mounting Type	Single-Driver	2-1/8" (50.8mm)	2-1/4" (60.3mm)	2-1/2" (63.5mm)	2-3/4" (68.8mm)	3-1/8" (82.6mm)	3-1/2" (88.9mm)	3-3/4" (95.2mm)	4-1/8" (106.7mm)	4-1/2" (113.0mm)
DSX1 with SPR	6.08	1.33	1.23	1.24	—	—	—	—	—	—
DSX1 with SPR, SPRN	6.10	1.40	1.30	1.34	—	—	—	—	—	—
DSX1 with SPR, SPRN, SF	6.16	1.40	1.30	1.34	—	—	—	—	—	—
DSX1 with SPR, SPRN, SF, Double End (SRL, M4, REV)	6.03	1.46	1.36	1.39	—	—	—	—	—	—

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#### Performance Data

##### Lumen Ambient Temperature (LAT) Multipliers

Performance Package	LED Count	Driver Current (mA)	Wattage	120V	208V	240V	277V	347V	480V
P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
P2	30	790	60	0.56	0.31	0.28	0.24	0.20	0.14
P3	30	1050	84	0.65	0.40	0.43	0.37	0.31	0.21

#### Projected LED Lumen Maintenance

Based on 10,000 hours of LED testing based per IESNA LM-80-08 and projected per IESNA TM-21-10.

Operating Hours	Lumen Maintenance Factor
25,000	0.95
50,000	0.91
100,000	0.81

#### Motion Sensor Default Settings

Option	Developed Default Level	High Level Luminaire Occupied	Photoeye Operation	Start Time	Setup-up Time	Dimming Fade Time
SPR	30%	100%	Enabled at 2°C	7.5 sec	3 sec	5 min
NLTAR2 PIRHN	30%	100%	Enabled at 2°C	7.5 sec	3 sec	5 min

#### Controls Options

Option	Description	Functionality	Primary control device	Notes
IND	Field adjustable indicator driver installed inside the luminaire, allows the driver to be manually dimmed, effectively increasing the light output.	Allows the luminaire to be manually dimmed, effectively increasing the light output.	IND device	Cannot be used with other controls options that need the 0-10Vdc bus.
DI (not available on DSX1)	Driver dimming via 0-10Vdc bus.	The luminaire is dimmed by the 0-10Vdc bus, allowing for 0-100% operation.	Independently wired dimmer	Requires two independently wired dimmers. Consider night shift as a lower cost effective alternative.
PIRS or PIR2	Passive infrared photocell sensor.	Computer with standard bus load photocell for dusk to dawn operation; or advanced control units that provide 0-10V dimming signals.	Two load photocells such as DLE (3 or 4 per luminaire) or PIR2 (2 per luminaire). Cannot be used with other controls options that need the 0-10Vdc bus.	PIRS 4 is a dimming bus; PIR2 is a 2-wire photocell sensor.
PIR	Motion sensor with integral photocell. Sensor suitable for 0-10Vdc dimming signals.	Luminaires dim when no occupancy is detected.	Acuity Controls-GMS	Cannot be used with other controls options that need the 0-10Vdc bus.
NLTAR2 PIRHN	Light 180° enabled luminaire for motion sensing photocell and wireless communication.	Motion and ambient light sensing with group response. 360-degree dimming with remote sensor override when wireless is connected to the 0-10Vdc bus.	at light for GMS	at light GMS sensors can be programmed and commissioned via the group setting via GMS/PIR/PIR2. Cannot be used with other controls options that need the 0-10Vdc bus.
BLU or BLU	Integrated in level device that allows a preset control such as touch of light sensors or other 0-10Vdc or 0-10Vdc dimming devices.	BLU device provides push 0-10V dimming bus on all drivers providing either 100% or dimmed (50% or 20%) control by extended sensor.	BLU (PIR2)	BLU device is powered off of 0-10V dimming bus, thus can be used with any input voltage from 120 to 480V.

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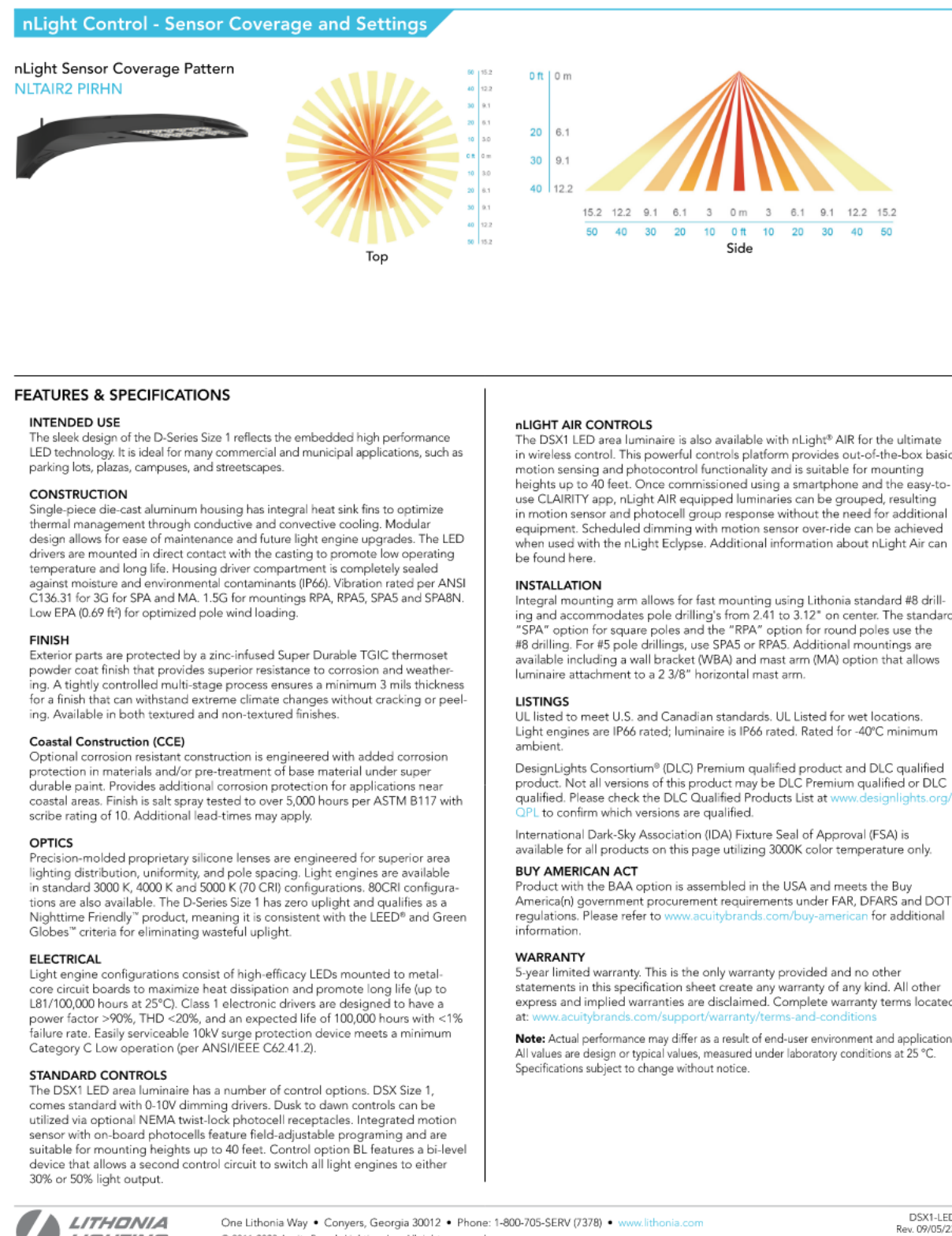
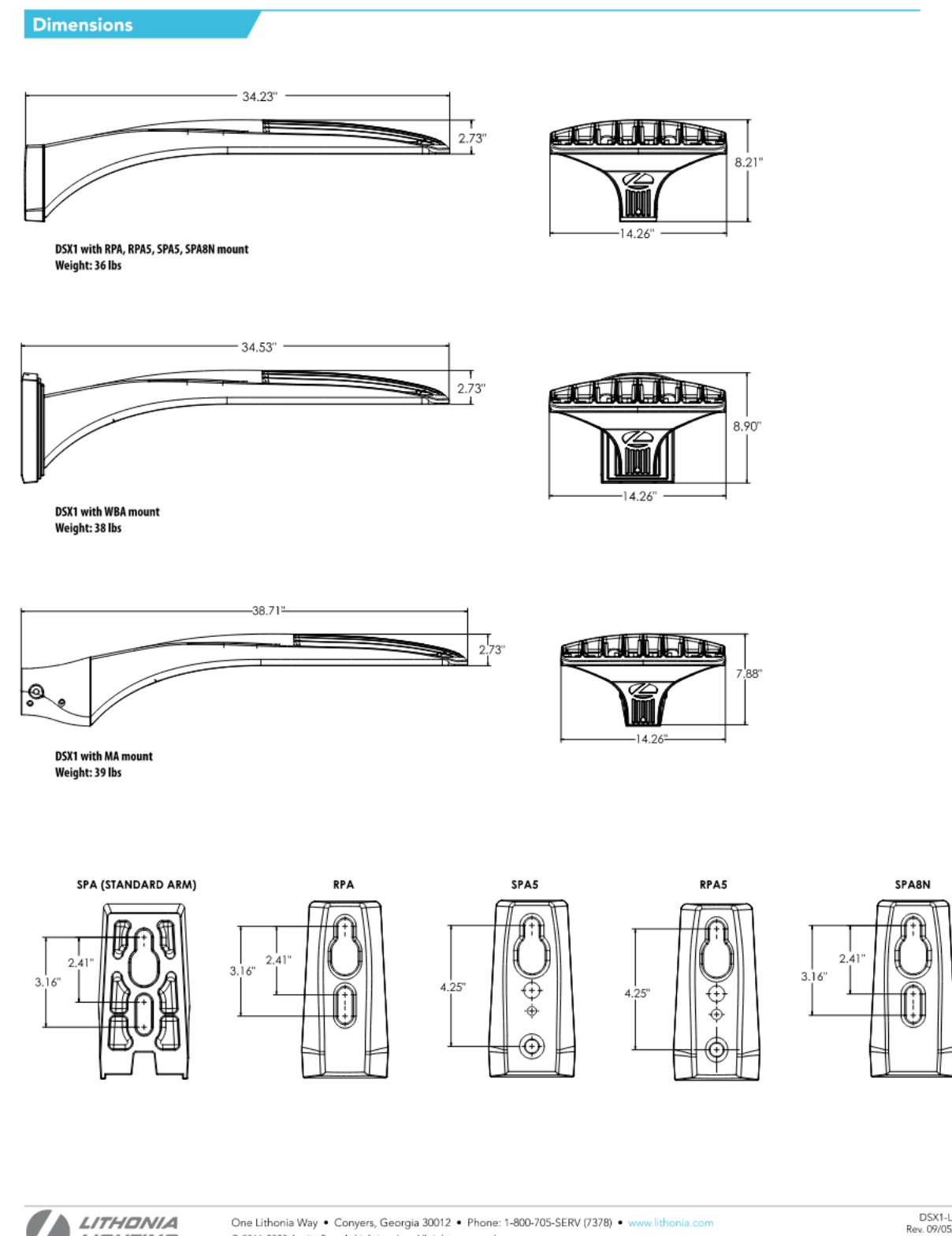


Performance Data																	
Lumen Output																	
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Performance Package	System Watts	LED Count	Beam Spread (deg)	Distribution Type	150K					300K							
					Lumens	lm-ft²	lm-ft²	lm-ft²	lm-ft²	Lumens	lm-ft²	lm-ft²	lm-ft²	lm-ft²			
P1	33W	30	530	SFR	1535	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1540	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1545	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1550	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1555	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1560	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1565	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1570	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1575	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1580	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1585	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1590	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1595	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1600	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
1605	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174					

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Performance Package	System Watts	LED Count	Beam Spread (deg)	Distribution Type	150K					300K							
					Lumens	lm-ft²	lm-ft²	lm-ft²	lm-ft²	Lumens	lm-ft²	lm-ft²	lm-ft²	lm-ft²			
P4	120W	30	1200	SFR	1535	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1540	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1545	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1550	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
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					1570	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1575	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1580	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1585	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
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					Lumens	lm-ft²	lm-ft²	lm-ft²	lm-ft²	Lumens	lm-ft²	lm-ft²	lm-ft²	lm-ft²			
P7	180W	60	1800	SFR	1535	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1540	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1545	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1550	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1555	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1560	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1565	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1570	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1575	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1580	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1585	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1590	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1595	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1600	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
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					Lumens	lm-ft²	lm-ft²	lm-ft²	lm-ft²	Lumens	lm-ft²	lm-ft²	lm-ft²	lm-ft²			
P10	300W	60	1800	SFR	1535	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1540	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1545	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1550	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1555	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1560	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1565	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1570	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1575	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1580	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1585	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1590	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1595	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
					1600	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174
1605	2.9	1	3	174	3.0	2	3	174	3.0	2	3	174					



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**Grandview Lift Station - Lighting Plan - Submittal 1 Comment Response**

Page Label	Comments	Author	Date	HR Green Response
E100	<p>Please include:</p> <ul style="list-style-type: none"> <li>-File Number: PPR2421</li> <li>-Detailed description of illuminating devices, fixtures, lamps, supports, reflectors, installation, and electrical details and other devices to include an elevation drawing. The description may include, but is not limited to, manufacturers specifications and catalog cuts sheets, and drawings. A key and legend may be required at the discretion of the PCD.</li> <li>-Photometric data and plan, including maps and diagrams furnished by manufacturers or similar showing the angle of the cut off or light emission.</li> <li>-Photometric plan depicting the lighting levels (foot candles) throughout the property, at property lines, and along any adjacent rights-of-way.</li> <li>-The location and height of all existing and proposed illuminating devices, including but not limited to, all parking area lights and external structural lights.</li> </ul>	ashmathy	7/30/2024	Created new lighting plan per example given, to provide required information.

