

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P532409

Luminaire Tested: **GALN-SA7D-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532409  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-735-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34481 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

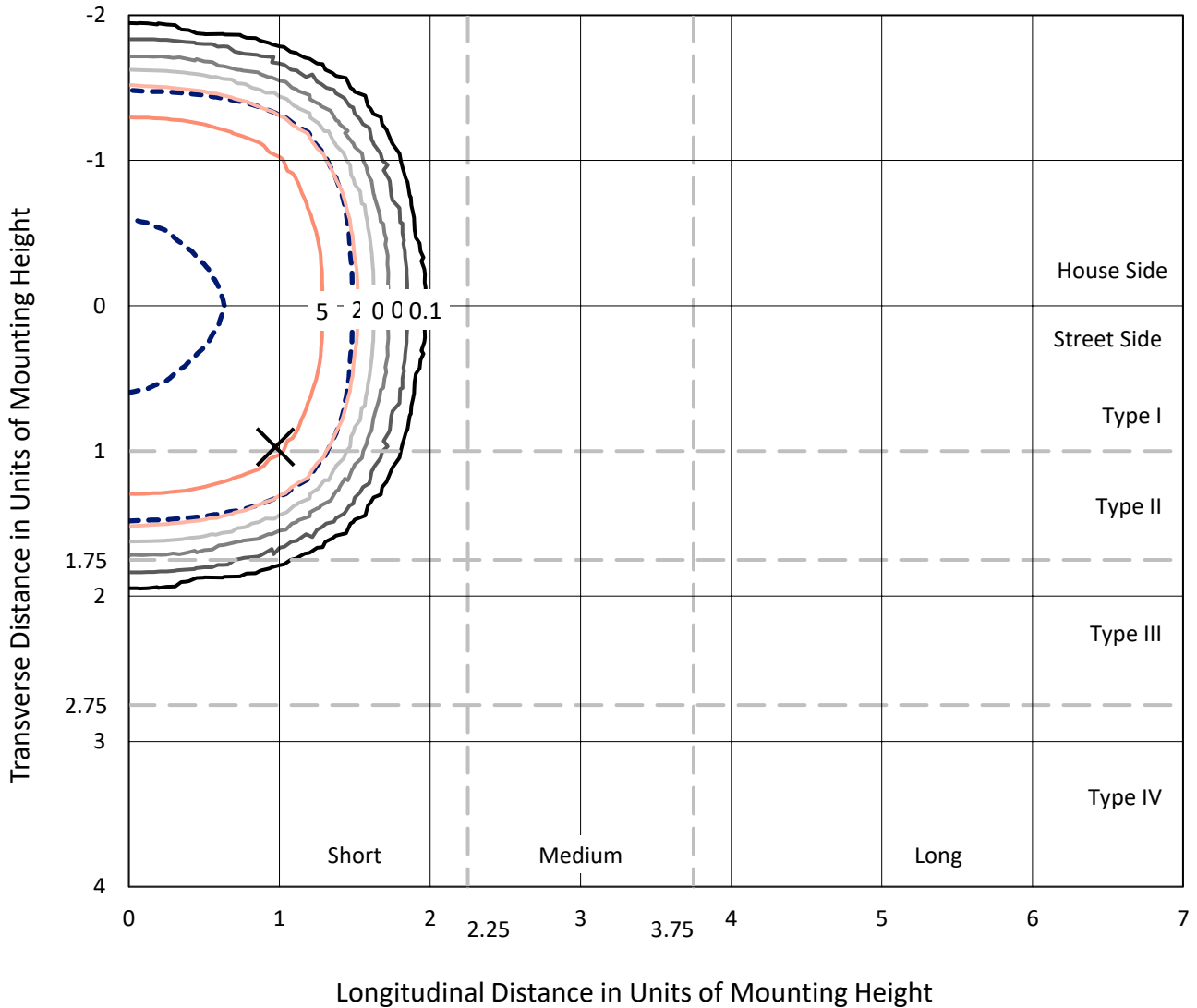
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

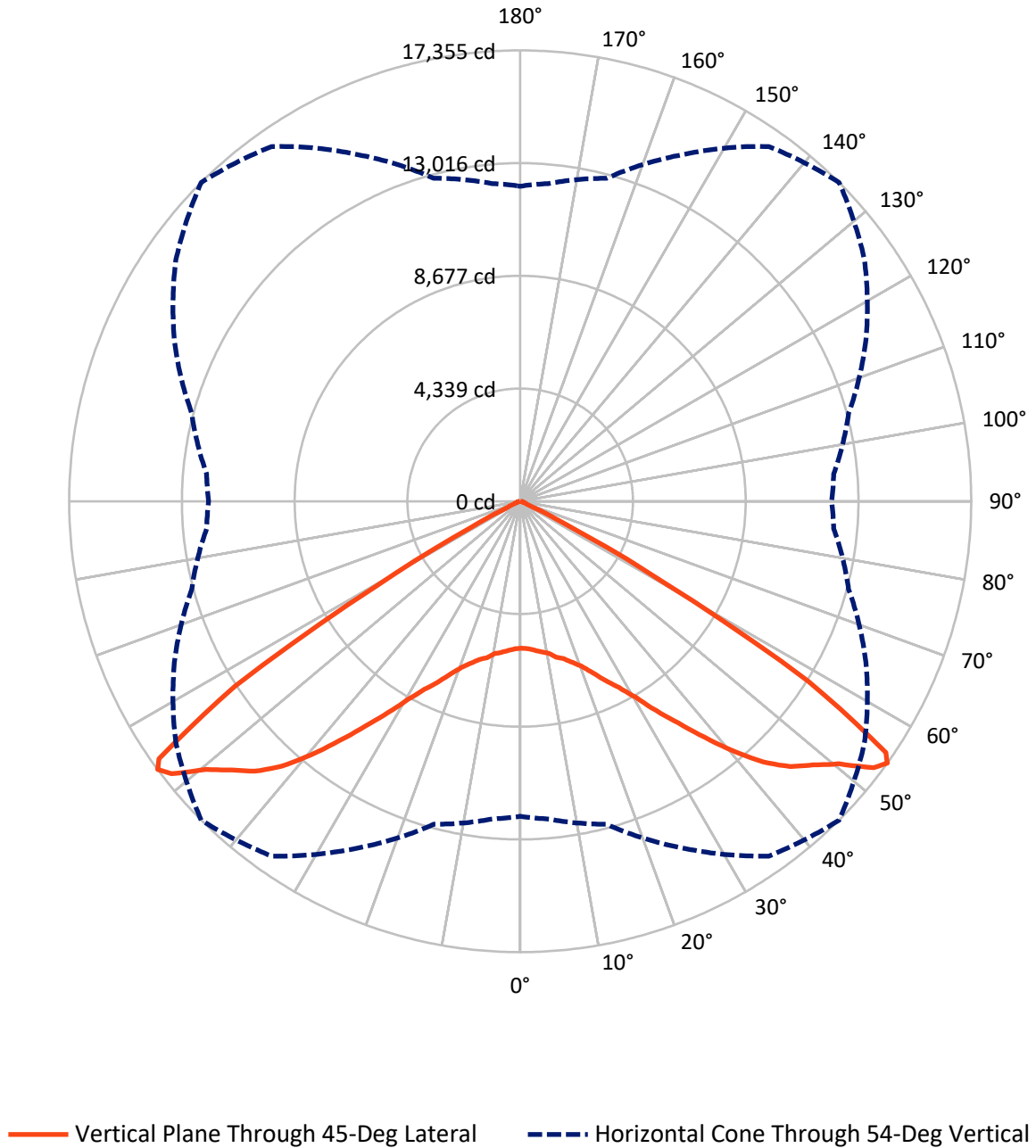
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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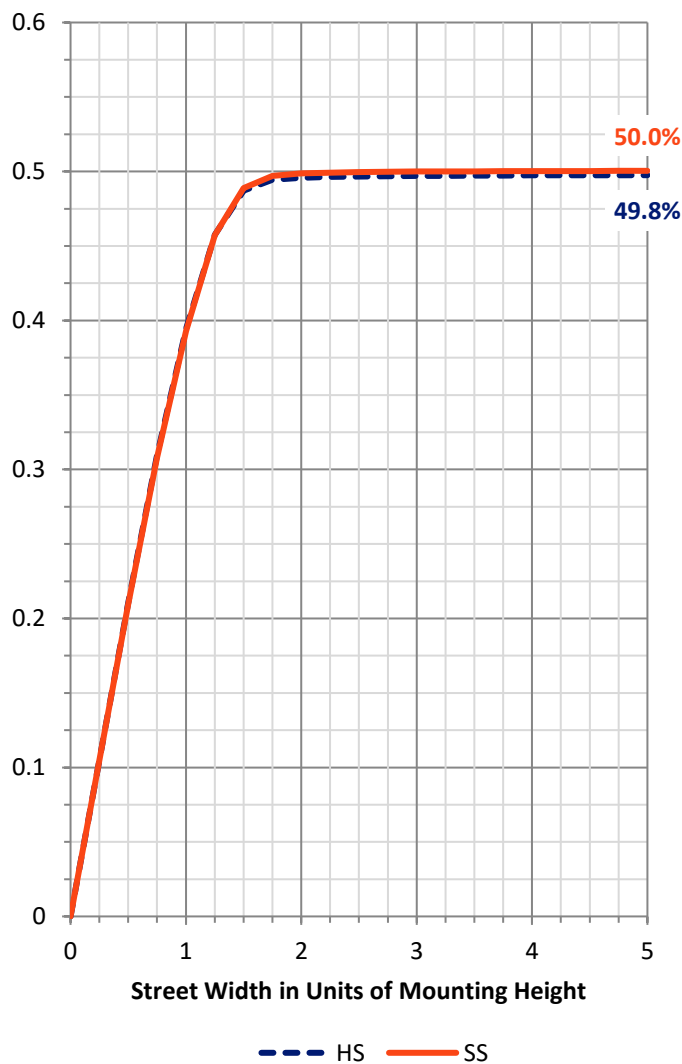
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17240.5	0.0	17240.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17240.5	0.0	17240.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34481.0	0.0	34481.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	553.4	1.6
10°-20°	1792.0	5.2
20°-30°	3512.3	10.2
30°-40°	6315.8	18.3
40°-50°	10811.5	31.4
50°-60°	10461.1	30.3
60°-70°	895.5	2.6
70°-80°	106.1	0.3
80°-90°	33.3	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	34481.0	100.0
0°-180°	34481.0	100.0

**Coefficient of Utilization**

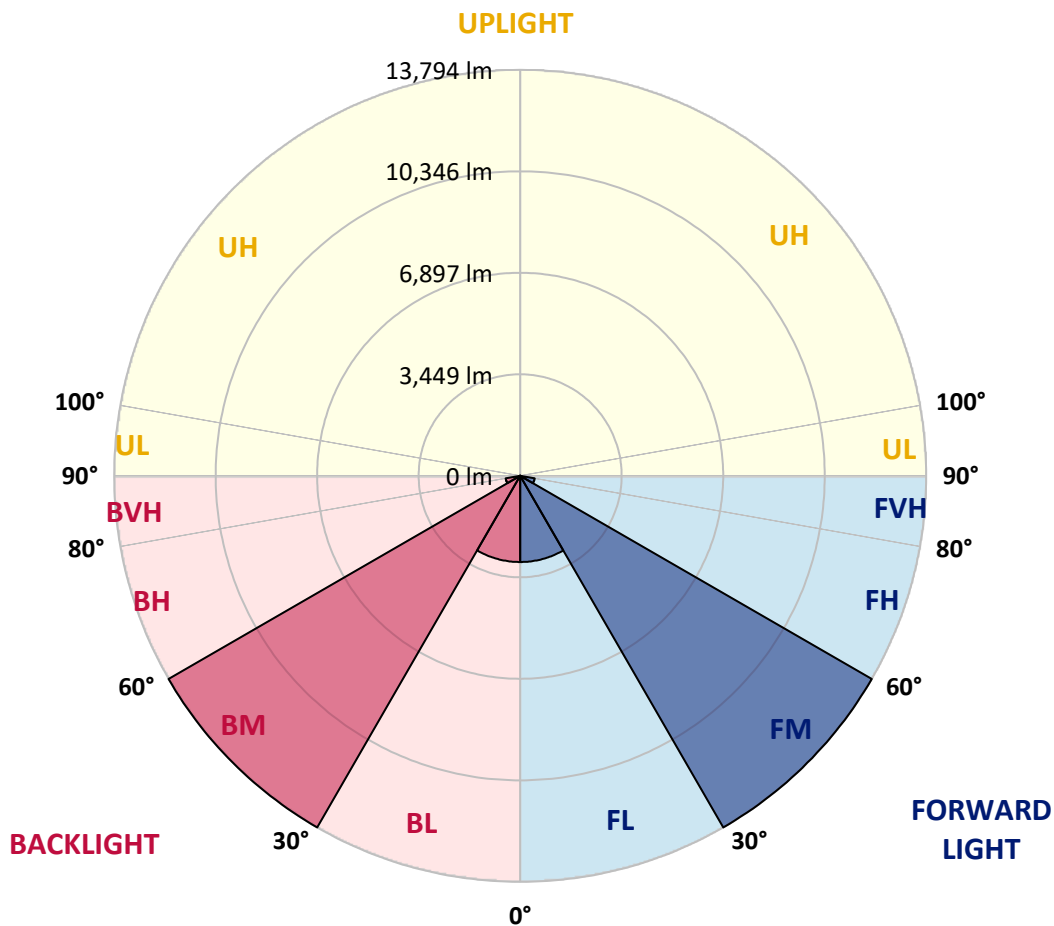


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2928.8	8.5			
FM (30°-60°)	13794.2	40.0			
FH (60°-80°)	500.8	1.5			G0/660
FVH (80°-90°)	16.7	0.0			G1/100
BL (0°-30°)	2928.8	8.5	B4/5000		
BM (30°-60°)	13794.2	40.0	B5		
BH (60°-80°)	500.8	1.5	B2/1000		G0/660
BVH (80°-90°)	16.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5653.8	5653.8	5653.8	5653.8	5653.8	5653.8	5653.8	5653.8	5653.8	5653.8	5653.8
2.5°	5681.1	5713.9	5692.0	5708.4	5708.4	5681.1	5697.5	5632.0	5675.7	5642.9	5648.3
5°	5768.5	5763.1	5763.1	5768.5	5746.7	5757.6	5735.7	5713.9	5697.5	5675.7	5741.2
7.5°	5877.8	5877.8	5839.5	5850.5	5839.5	5855.9	5812.2	5768.5	5752.1	5735.7	5724.8
10°	5981.6	5970.6	5954.3	6003.4	5965.2	5943.3	5921.5	5894.2	5834.1	5812.2	5790.4
12.5°	6134.5	6129.1	6107.2	6156.4	6134.5	6156.4	6074.4	6003.4	5992.5	5921.5	5959.7
15°	6314.8	6364.0	6325.7	6325.7	6314.8	6287.5	6254.7	6221.9	6123.6	6096.3	6101.7
17.5°	6549.7	6533.3	6538.8	6538.8	6593.4	6522.4	6456.8	6374.9	6325.7	6309.3	6254.7
20°	6773.6	6795.5	6790.0	6828.3	6861.0	6784.6	6713.6	6702.6	6566.1	6587.9	6511.4
22.5°	7167.0	7150.6	7177.9	7205.2	7183.3	7172.4	7106.9	7024.9	6904.7	6850.1	6839.2
25°	7582.1	7554.8	7505.6	7571.2	7604.0	7653.1	7527.5	7483.8	7298.1	7216.1	7221.6
27.5°	7937.2	7975.4	8030.0	8057.4	8139.3	8122.9	8035.5	7893.5	7751.5	7658.6	7598.5
30°	8423.4	8445.2	8538.1	8576.3	8718.3	8756.6	8620.0	8456.1	8204.9	8084.7	8013.7
32.5°	8871.3	9024.2	9018.8	9210.0	9439.4	9597.8	9352.0	9100.7	8849.4	8707.4	8581.8
35°	9597.8	9570.5	9728.9	9931.0	10302.5	10482.8	10215.1	9925.6	9543.2	9313.8	9215.4
37.5°	10275.2	10286.1	10499.2	10821.4	11247.5	11526.1	11291.2	10816.0	10422.7	10127.7	9991.1
40°	11258.5	11280.3	11498.8	11864.8	12345.5	12646.0	12372.8	11892.1	11367.7	11138.3	11138.3
42.5°	12411.1	12503.9	12646.0	12962.8	13394.3	13727.6	13481.7	13104.8	12574.9	12280.0	12323.7
45°	13596.5	13640.2	13733.0	14202.8	14404.9	14568.8	14339.4	14164.6	13809.5	13449.0	13388.9
47.5°	14705.4	14721.8	14994.9	15142.4	15300.8	15164.2	15311.7	15082.3	14683.5	14333.9	14262.9
50°	15197.0	15169.7	15557.5	16005.5	16125.6	15885.3	15759.7	15606.7	15000.3	14579.7	14394.0
52.5°	13765.8	13924.2	14645.3	15890.8	16830.3	17032.4	16300.5	15595.8	14465.0	13645.6	13520.0
54°	12127.0	12274.5	12869.9	14716.3	16671.9	17354.7	16174.8	14678.1	13083.0	12110.6	11985.0
55°	10504.6	10340.7	11422.3	13306.9	15929.0	17070.7	15677.7	13492.7	11668.2	10777.7	10602.9
57.5°	5686.6	5713.9	6626.2	8407.0	11192.9	13088.4	11558.9	9128.0	6893.8	5894.2	5806.8
60°	1802.7	1846.4	2245.1	3397.7	5347.9	6385.8	5473.5	3665.4	2534.7	2032.1	1950.2
62.5°	562.6	584.5	639.1	950.5	1464.0	2092.2	1638.8	983.3	732.0	671.9	682.8
65°	344.1	344.1	349.6	371.5	437.0	508.0	491.6	431.5	415.2	404.2	398.8
67.5°	224.0	218.5	229.4	245.8	256.7	262.2	278.6	295.0	289.5	278.6	278.6
70°	136.6	131.1	142.0	163.9	169.3	180.3	196.7	218.5	213.0	202.1	207.6
72.5°	76.5	76.5	81.9	98.3	114.7	125.6	142.0	158.4	163.9	158.4	158.4
75°	27.3	32.8	43.7	60.1	71.0	87.4	103.8	120.2	136.6	125.6	120.2
77.5°	10.9	10.9	21.9	38.2	54.6	71.0	98.3	114.7	125.6	114.7	103.8
80°	5.5	5.5	16.4	32.8	49.2	65.6	81.9	98.3	103.8	92.9	81.9
82.5°	5.5	5.5	16.4	32.8	49.2	60.1	87.4	98.3	109.3	98.3	81.9
85°	0.0	5.5	16.4	32.8	43.7	49.2	49.2	32.8	27.3	16.4	16.4
87.5°	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)