

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: P533112

Luminaire Tested: **GALN-SA8C-735-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533112  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-735-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47635 lumens  
Efficiency: N/A  
Efficacy: 111.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

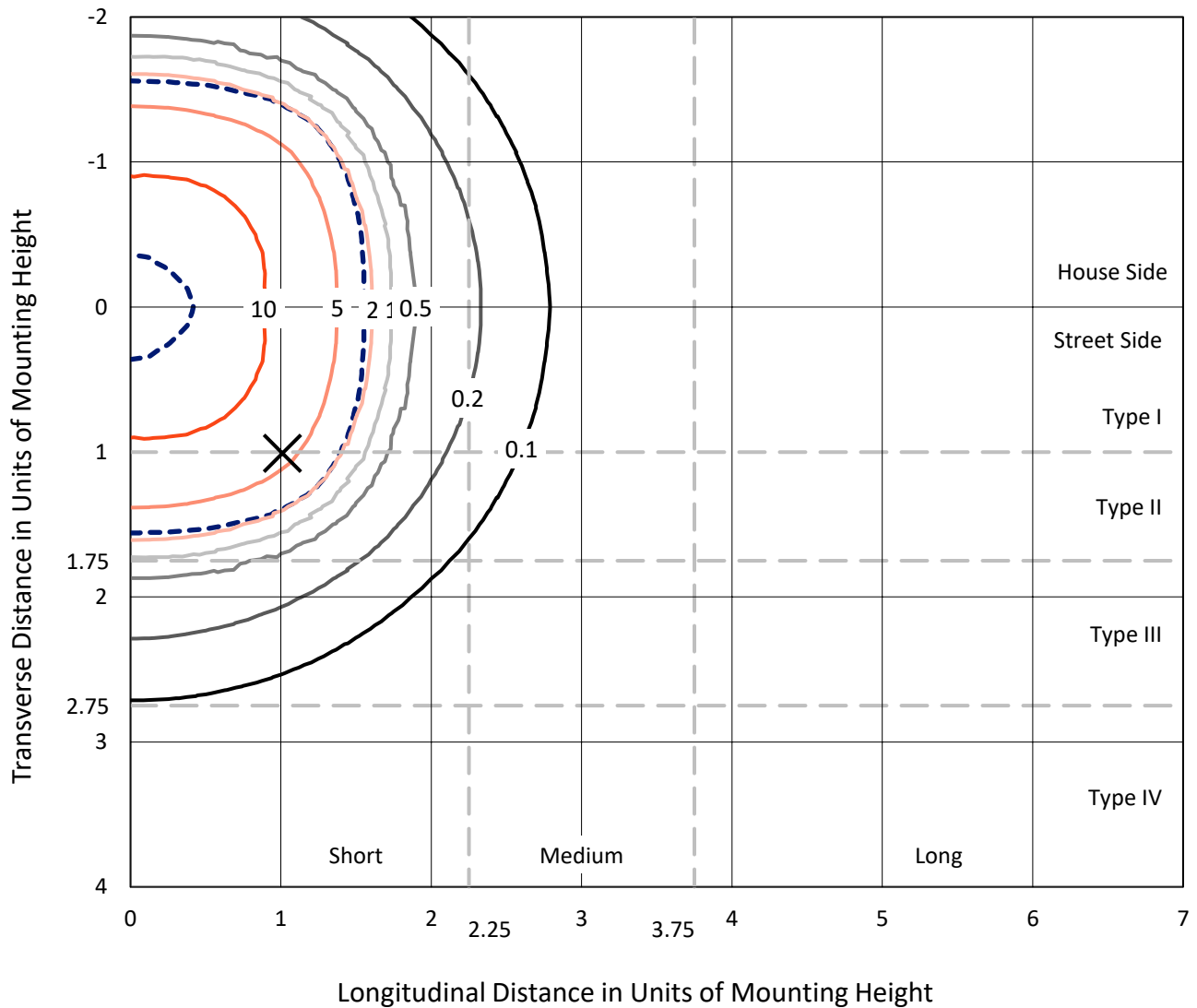
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

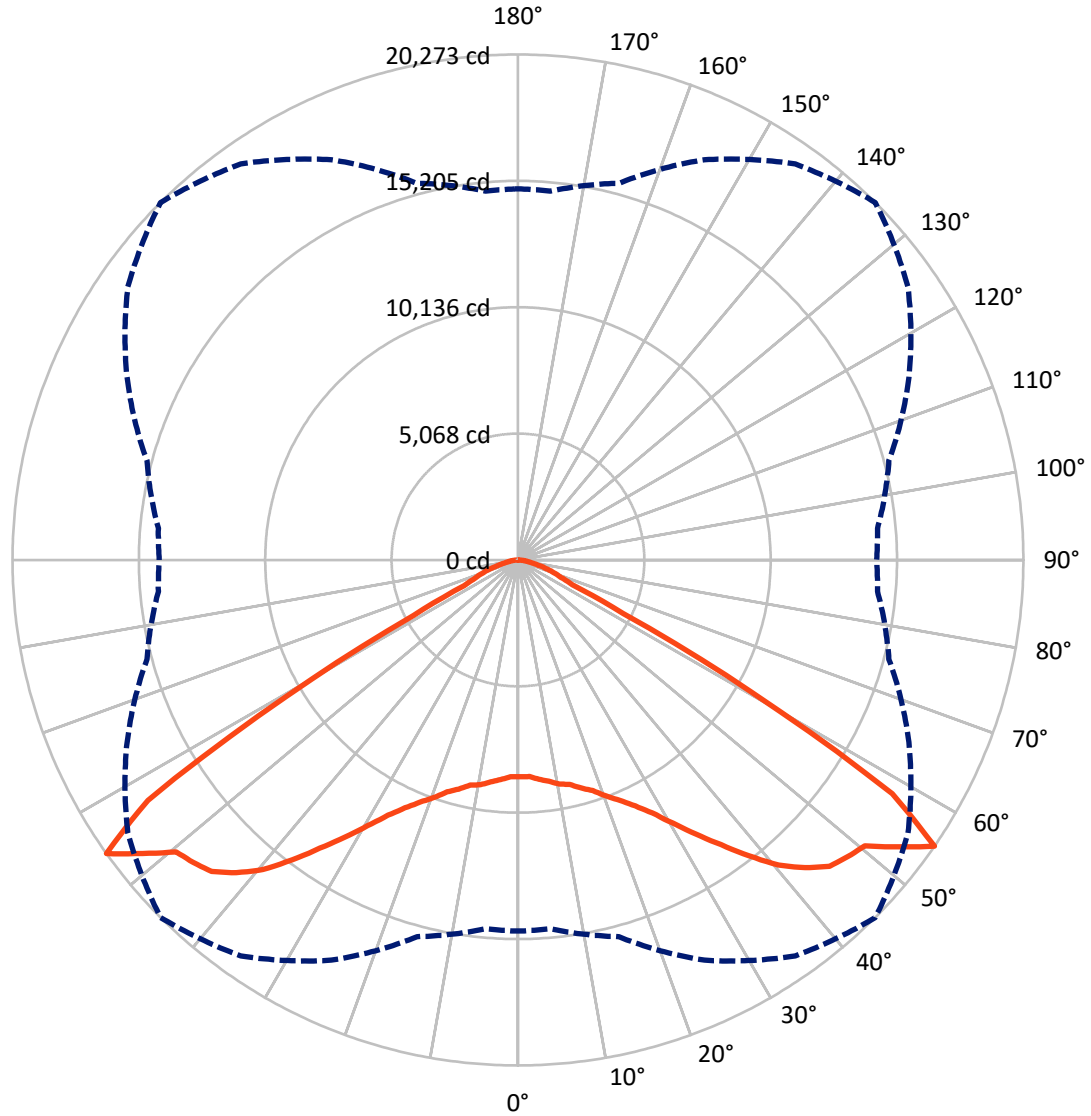
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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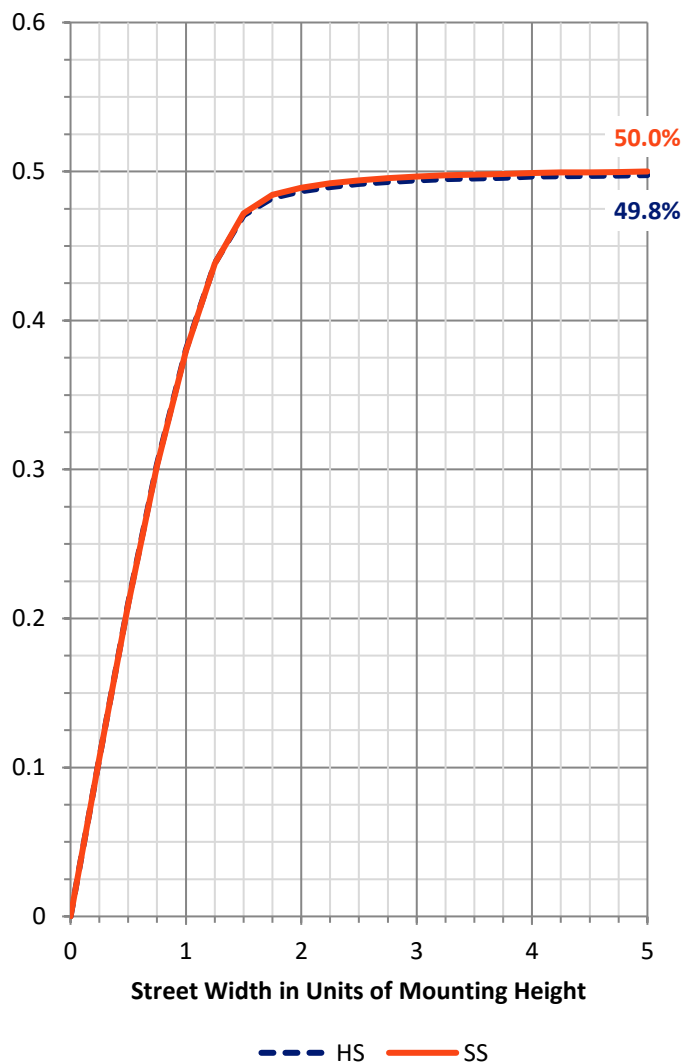
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23817.5	0.0	23817.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23817.5	0.0	23817.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	47635.0	0.0	47635.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	849.7	1.8
10°-20°	2692.1	5.7
20°-30°	5020.0	10.5
30°-40°	8405.1	17.6
40°-50°	13079.0	27.5
50°-60°	13580.1	28.5
60°-70°	2879.9	6.0
70°-80°	948.4	2.0
80°-90°	180.6	0.4
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°	47635.0	100.0
0°-180°	47635.0	100.0

**Coefficient of Utilization**

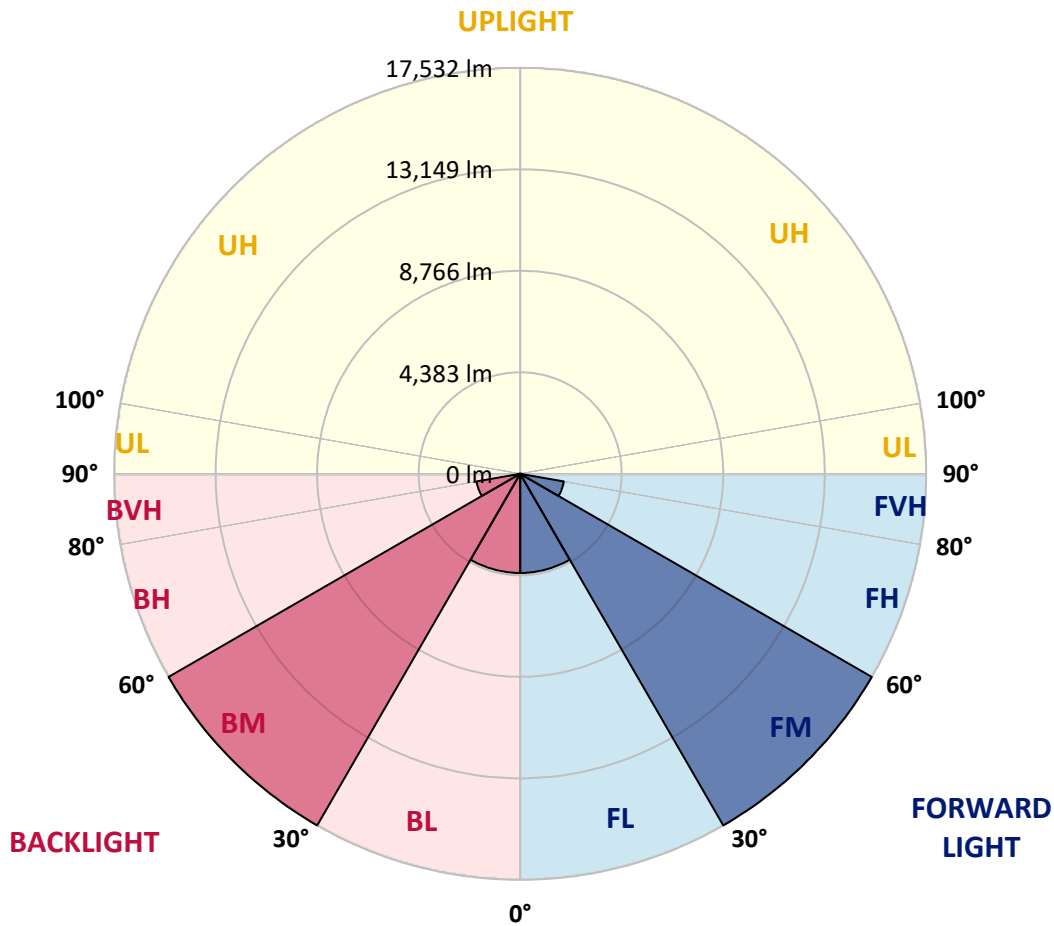


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4280.9	9.0			
FM (30°-60°)	17532.1	36.8			
FH (60°-80°)	1914.2	4.0			G2/5000
FVH (80°-90°)	90.3	0.2			G1/100
BL (0°-30°)	4280.9	9.0	B4/5000		
BM (30°-60°)	17532.1	36.8	B5		
BH (60°-80°)	1914.2	4.0	B3/2500		G2/5000
BVH (80°-90°)	90.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8697.4	8697.4	8697.4	8697.4	8697.4	8697.4	8697.4	8697.4	8697.4	8697.4	8697.4
2.5°	8801.0	8760.8	8691.7	8743.5	8783.8	8697.4	8732.0	8749.2	8737.7	8691.7	8709.0
5°	8927.7	8904.7	8847.1	8887.4	8835.6	8835.6	8801.0	8755.0	8824.1	8812.6	8841.3
7.5°	8927.7	8898.9	9014.0	8939.2	8962.2	8962.2	8904.7	8858.6	8893.1	8841.3	8812.6
10°	9106.1	9146.4	9094.6	9111.9	9100.4	9140.7	9054.3	9025.5	8996.8	8979.5	8945.0
12.5°	9319.1	9290.3	9307.6	9296.1	9336.4	9232.8	9181.0	9117.6	9169.4	9094.6	9146.4
15°	9491.8	9474.5	9491.8	9537.8	9497.5	9491.8	9399.7	9336.4	9255.8	9273.0	9192.5
17.5°	9727.8	9710.5	9716.3	9756.6	9750.8	9722.0	9653.0	9532.1	9503.3	9457.2	9405.4
20°	10078.9	10050.1	10038.6	10055.9	10084.7	10107.7	9969.5	9923.5	9825.6	9750.8	9664.5
22.5°	10378.2	10366.7	10412.8	10337.9	10401.2	10470.3	10337.9	10314.9	10073.1	10032.9	9940.8
25°	10792.7	10775.4	10746.6	10856.0	10930.8	10925.0	10798.4	10671.8	10487.6	10441.5	10441.5
27.5°	11230.1	11132.3	11281.9	11310.7	11443.1	11483.4	11374.0	11189.8	11017.1	10919.3	10942.3
30°	11776.9	11684.8	11719.4	11926.6	12099.3	12248.9	11972.7	11702.1	11460.4	11287.7	11258.9
32.5°	12323.8	12231.7	12335.3	12536.7	12882.1	13106.6	12836.1	12364.1	12082.0	11828.7	11880.6
35°	12767.0	12836.1	13003.0	13308.1	13664.9	14027.6	13595.9	13233.2	12830.3	12548.3	12588.6
37.5°	13480.7	13693.7	13826.1	14177.2	14683.8	15057.9	14608.9	14136.9	13705.2	13336.8	13210.2
40°	14413.2	14557.1	14706.8	15121.2	15719.9	16094.0	15668.1	15052.2	14626.2	14246.3	14229.0
42.5°	15437.8	15576.0	15731.4	16237.9	16594.8	16876.8	16485.4	16157.3	15685.3	15386.0	15368.7
45°	16629.3	16531.5	16704.2	17038.0	17337.3	17521.5	17268.2	17107.1	16767.5	16491.2	16462.4
47.5°	17423.7	17337.3	17648.1	17947.5	17993.5	17792.1	17843.9	17993.5	17636.6	17181.9	17325.8
50°	17884.1	17884.1	18091.4	18367.7	18281.3	18022.3	18431.0	18442.5	18085.6	17682.7	17682.7
52.5°	17084.1	17262.5	17849.6	18753.3	19041.1	19115.9	19023.9	18632.4	17700.0	16876.8	16836.5
55°	14885.2	14844.9	15639.3	17711.5	19386.5	20272.9	19098.7	17297.0	15403.3	14476.5	14384.4
57.5°	9681.7	9727.8	10913.5	13026.0	16048.0	17700.0	15719.9	13187.2	10913.5	9635.7	9756.6
60°	4357.4	4512.8	5232.3	6809.4	9405.4	10752.4	9428.5	7154.8	5491.3	4766.0	4829.4
62.5°	2503.9	2532.7	2561.5	3039.2	4006.2	4737.3	4161.6	3211.9	2832.0	2705.4	2705.4
65°	2112.5	2095.2	2101.0	2141.3	2244.9	2394.5	2331.2	2244.9	2256.4	2244.9	2227.6
67.5°	1795.9	1818.9	1801.7	1830.4	1836.2	1859.2	1899.5	1934.0	1939.8	1951.3	1939.8
70°	1473.6	1479.3	1490.8	1513.8	1519.6	1536.9	1594.4	1623.2	1640.5	1640.5	1663.5
72.5°	1128.2	1122.4	1133.9	1157.0	1185.8	1191.5	1243.3	1283.6	1306.6	1277.9	1283.6
75°	742.5	748.3	765.6	782.8	823.1	863.4	880.7	921.0	926.7	938.2	909.5
77.5°	443.2	454.7	472.0	506.5	541.1	575.6	615.9	644.7	656.2	644.7	610.1
80°	287.8	287.8	310.8	339.6	379.9	408.7	431.7	454.7	472.0	454.7	443.2
82.5°	178.4	178.4	207.2	241.8	270.5	287.8	322.3	351.1	368.4	356.9	339.6
85°	92.1	97.9	120.9	149.7	172.7	184.2	178.4	161.2	143.9	138.1	126.6
87.5°	28.8	28.8	34.5	34.5	28.8	28.8	34.5	28.8	34.5	34.5	34.5
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)