

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: P652479

Luminaire Tested: **GALN-SA7B-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-840-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29420.7 lumens  
Efficiency: N/A  
Efficacy: 102.9 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

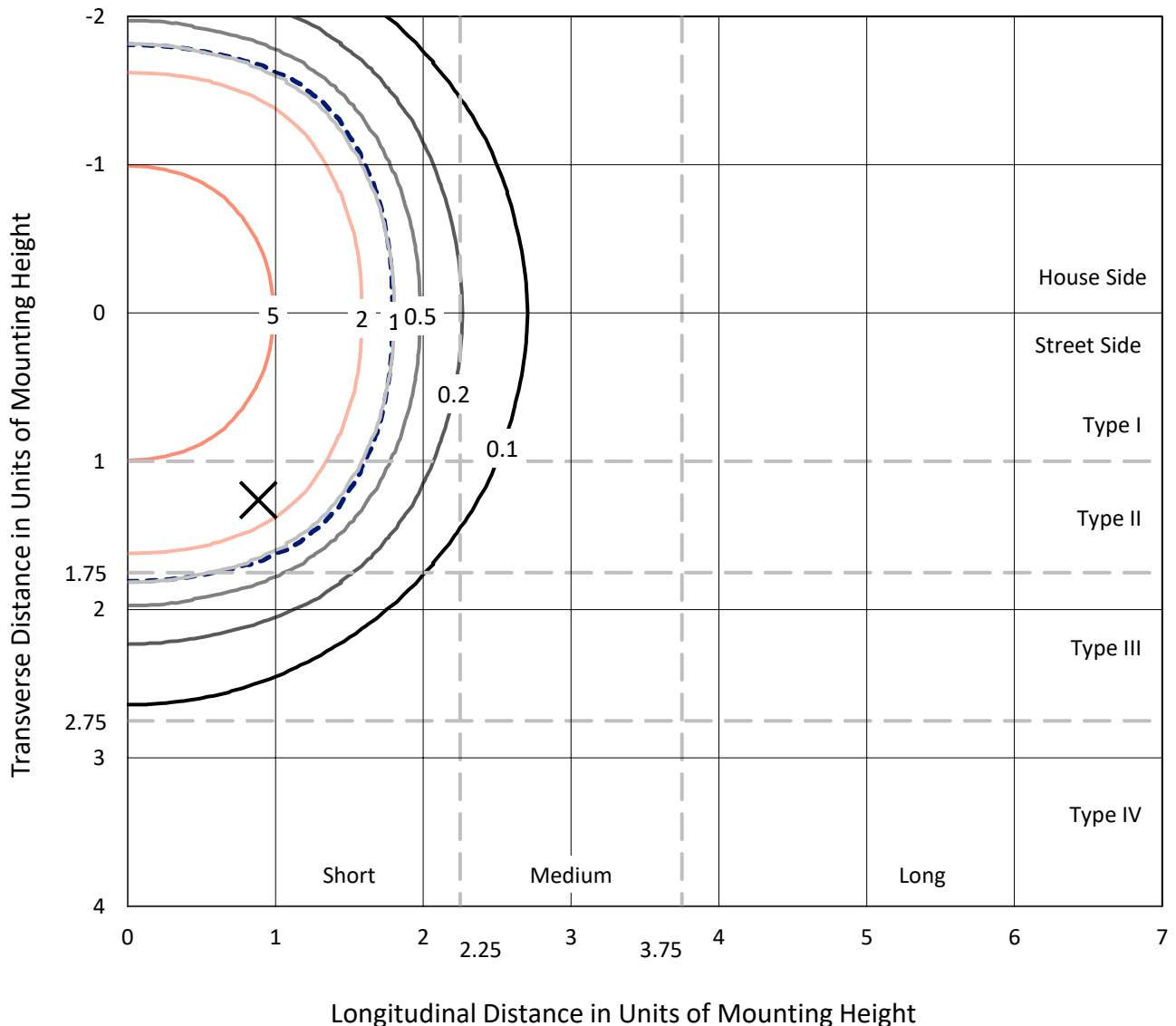
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

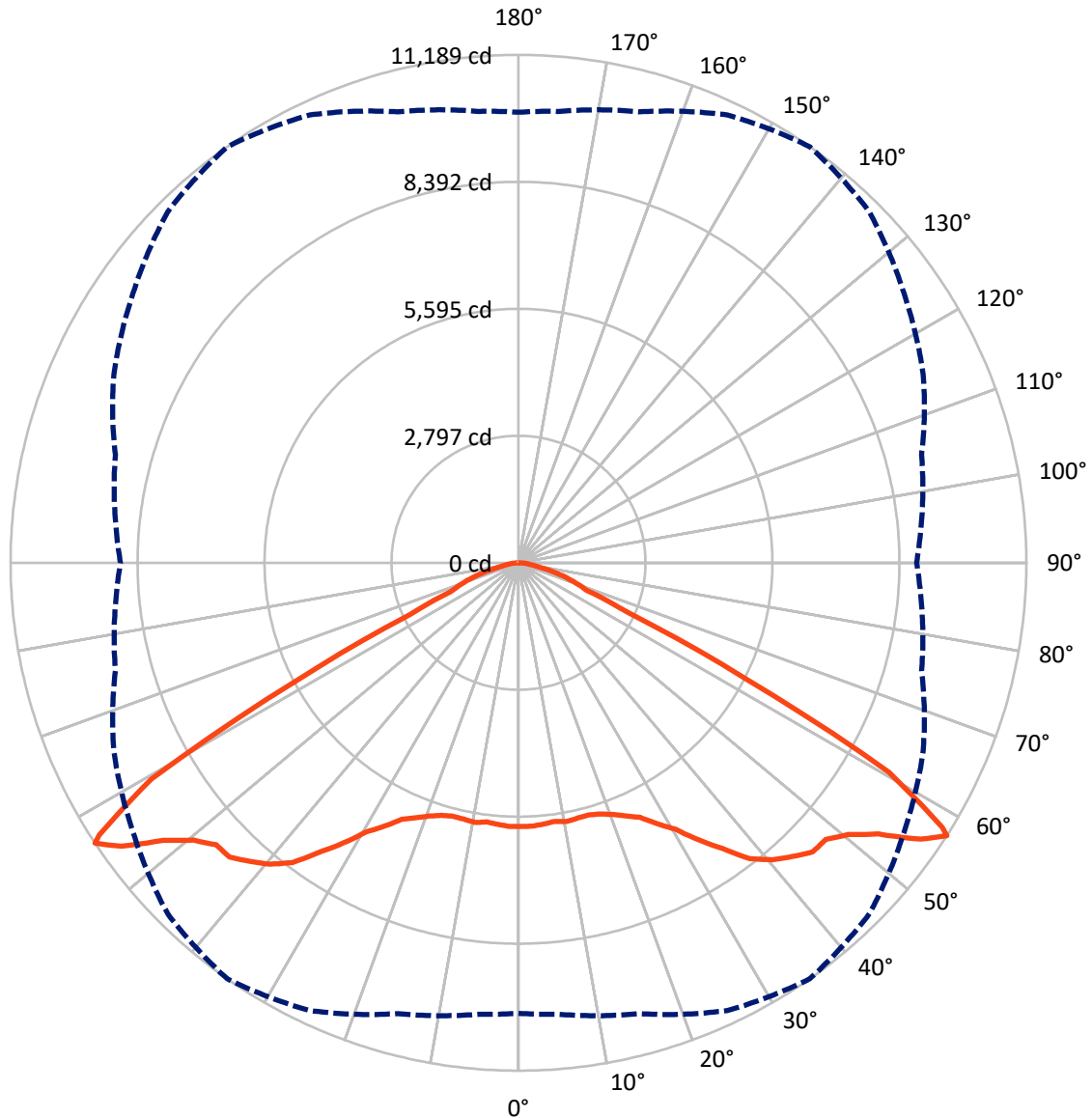
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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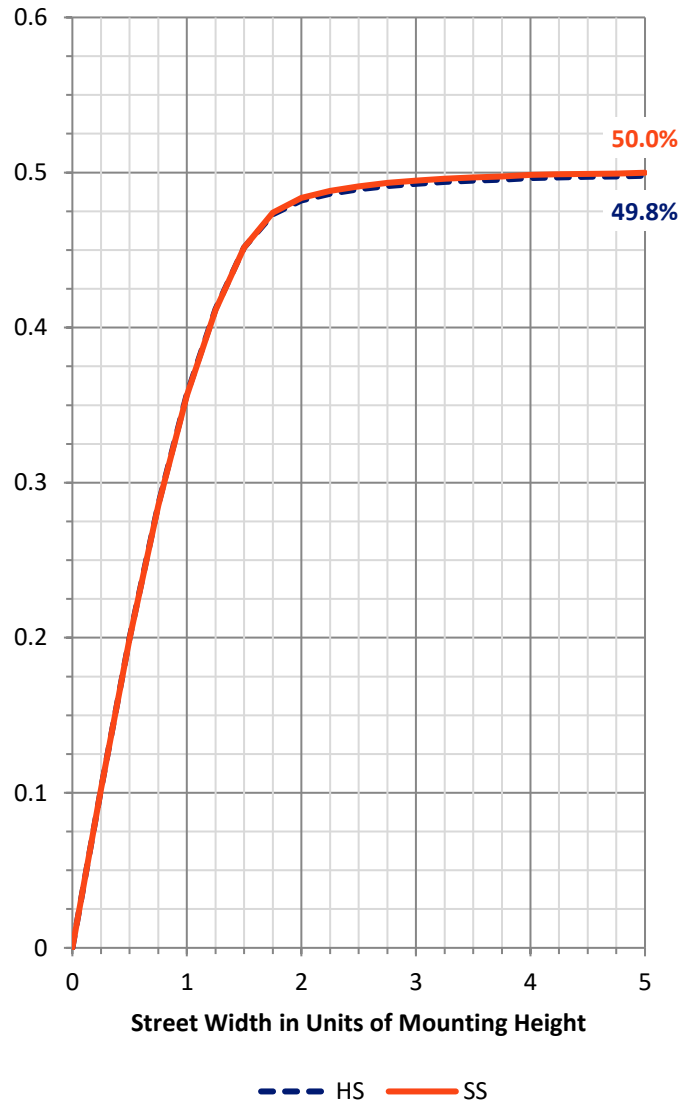
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14710.3	0.0	14710.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14710.3	0.0	14710.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29420.7	0.0	29420.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.8	1.9
10°-20°	1631.4	5.5
20°-30°	2849.3	9.7
30°-40°	4668.6	15.9
40°-50°	6845.4	23.3
50°-60°	8622.3	29.3
60°-70°	3242.8	11.0
70°-80°	862.2	2.9
80°-90°	147.8	0.5
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°	29420.7	100.0
0°-180°	29420.7	100.0

**Coefficient of Utilization**



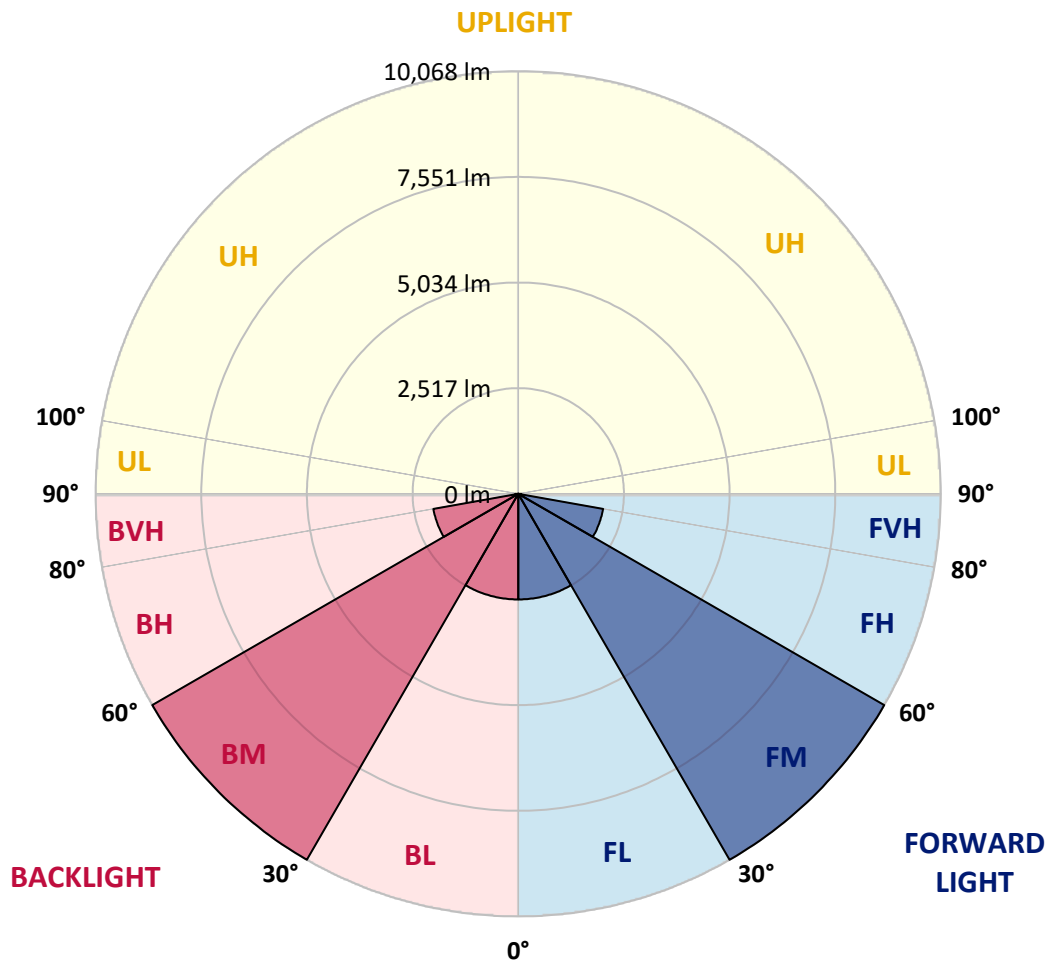
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2515.8	8.6			
FM (30°-60°)	10068.1	34.2			
FH (60°-80°)	2052.5	7.0			G2/5000
FVH (80°-90°)	73.9	0.3			G1/100
BL (0°-30°)	2515.8	8.6	B4/5000		
BM (30°-60°)	10068.1	34.2	B5		
BH (60°-80°)	2052.5	7.0	B3/2500		G2/5000
BVH (80°-90°)	73.9	0.3			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°	5810.4	5810.4	5810.4	5810.4	5810.4	5810.4	5810.4	5810.4	5810.4	5810.4	5810.4
2.5°	5781.4	5839.4	5814.0	5799.5	5810.4	5792.2	5763.3	5795.8	5788.6	5759.6	5748.7
5°	5766.9	5810.4	5781.4	5810.4	5781.4	5832.1	5817.6	5763.3	5828.5	5766.9	5788.6
7.5°	5756.0	5770.5	5777.8	5763.3	5752.4	5814.0	5781.4	5756.0	5719.7	5708.9	5727.0
10°	5730.7	5766.9	5712.5	5785.0	5799.5	5756.0	5756.0	5708.9	5679.9	5661.8	5723.3
12.5°	5795.8	5734.3	5727.0	5763.3	5774.1	5792.2	5741.5	5716.1	5661.8	5669.0	5658.2
15°	5719.7	5745.1	5748.7	5756.0	5766.9	5810.4	5763.3	5708.9	5687.1	5611.0	5618.3
17.5°	5748.7	5723.3	5748.7	5832.1	5817.6	5850.2	5799.5	5716.1	5665.4	5621.9	5679.9
20°	5799.5	5788.6	5799.5	5901.0	5919.1	5948.1	5904.6	5828.5	5730.7	5679.9	5708.9
22.5°	5853.9	5846.6	5853.9	5951.8	6056.9	6093.1	6049.6	5872.0	5821.2	5727.0	5694.4
25°	5951.8	5959.0	6035.1	6143.8	6212.7	6281.6	6201.9	6075.0	5911.9	5853.9	5785.0
27.5°	6169.2	6187.3	6230.8	6390.3	6509.9	6571.6	6459.2	6285.2	6183.7	6064.1	6045.9
30°	6437.4	6437.4	6513.5	6651.3	6814.4	6908.6	6770.9	6564.3	6441.1	6375.8	6335.9
32.5°	6792.7	6752.8	6781.8	7024.6	7278.4	7358.1	7173.2	6919.5	6723.8	6636.8	6607.8
35°	7097.1	7122.5	7187.8	7448.7	7731.5	7916.3	7626.4	7296.5	7097.1	7017.4	7002.9
37.5°	7492.2	7535.7	7568.3	7927.2	8267.9	8336.7	8057.7	7793.0	7550.2	7485.0	7448.7
40°	8050.4	8021.5	8032.3	8296.9	8605.0	8648.5	8373.0	8184.5	7985.2	7945.3	7945.3
42.5°	8510.8	8478.1	8514.4	8612.3	8847.8	8815.3	8663.0	8525.3	8441.9	8398.4	8441.9
45°	8789.9	8782.6	8847.8	8920.3	9087.1	8978.3	8858.8	8880.5	8800.7	8728.2	8724.6
47.5°	9094.3	9047.2	9127.0	9235.7	9108.9	9058.1	9050.8	9097.9	9072.6	8945.7	8905.9
50°	9242.9	9224.8	9351.7	9478.6	9409.7	9293.7	9319.0	9395.1	9068.9	8898.6	8800.7
52.5°	9641.6	9645.3	9888.1	9957.0	9928.0	9757.6	9812.0	9605.4	9221.2	8982.0	8992.8
55°	10268.8	10243.4	10515.2	10718.2	10750.8	10533.4	10272.4	9982.4	9500.3	9257.5	9185.0
57°	9924.4	9982.4	10283.2	10884.9	11189.4	10932.1	10363.0	9833.8	9192.2	8898.6	8768.1
57.5°	9464.0	9558.3	10080.2	10685.6	11004.6	10982.8	10250.6	9558.3	8985.6	8528.9	8539.8
60°	6934.0	6952.1	7423.3	8383.9	9380.7	9402.5	8510.8	7593.7	6955.7	6459.2	6528.1
62.5°	3657.3	3740.7	3929.2	4701.2	5563.9	5774.1	5234.0	4762.8	4211.9	3835.0	3871.1
65°	1935.6	1924.7	2015.3	2232.8	2656.9	2765.6	2693.1	2319.8	2127.7	2066.1	2069.7
67.5°	1573.1	1591.3	1580.3	1591.3	1620.3	1667.4	1656.5	1671.0	1681.8	1700.0	1696.4
70°	1333.9	1333.9	1341.1	1344.8	1344.8	1366.5	1391.9	1439.0	1442.7	1460.7	1468.0
72.5°	1051.2	1043.9	1054.8	1080.2	1083.8	1101.9	1138.1	1167.1	1178.0	1178.0	1156.3
75°	714.1	721.3	735.8	757.6	779.3	811.9	840.9	859.1	866.3	855.5	844.5
77.5°	402.3	409.6	420.5	453.0	478.4	507.5	540.1	558.2	576.3	580.0	558.2
80°	239.3	239.3	257.3	282.7	311.8	340.7	369.7	391.5	398.7	398.7	387.9
82.5°	145.0	148.6	163.1	188.5	213.9	231.9	257.3	275.5	290.0	286.4	279.1
85°	76.1	76.1	90.6	112.4	130.5	148.6	148.6	137.8	130.5	112.4	105.1
87.5°	25.4	21.8	29.0	29.0	25.4	29.0	29.0	32.6	32.6	32.6	32.6
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)