

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: P647597

Luminaire Tested: **GALN-SA8D-835-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647597  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-835-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42858.3 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

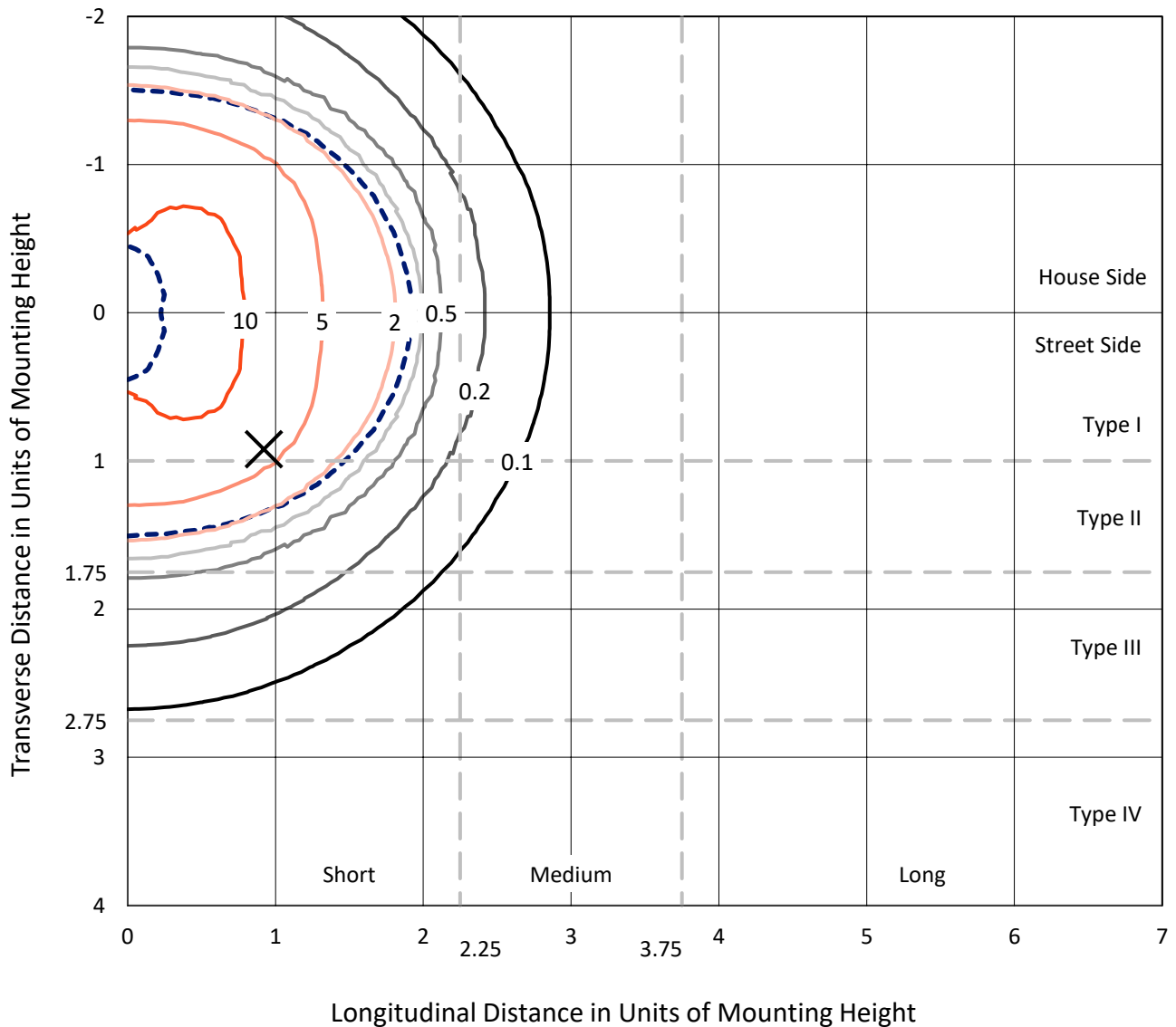
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

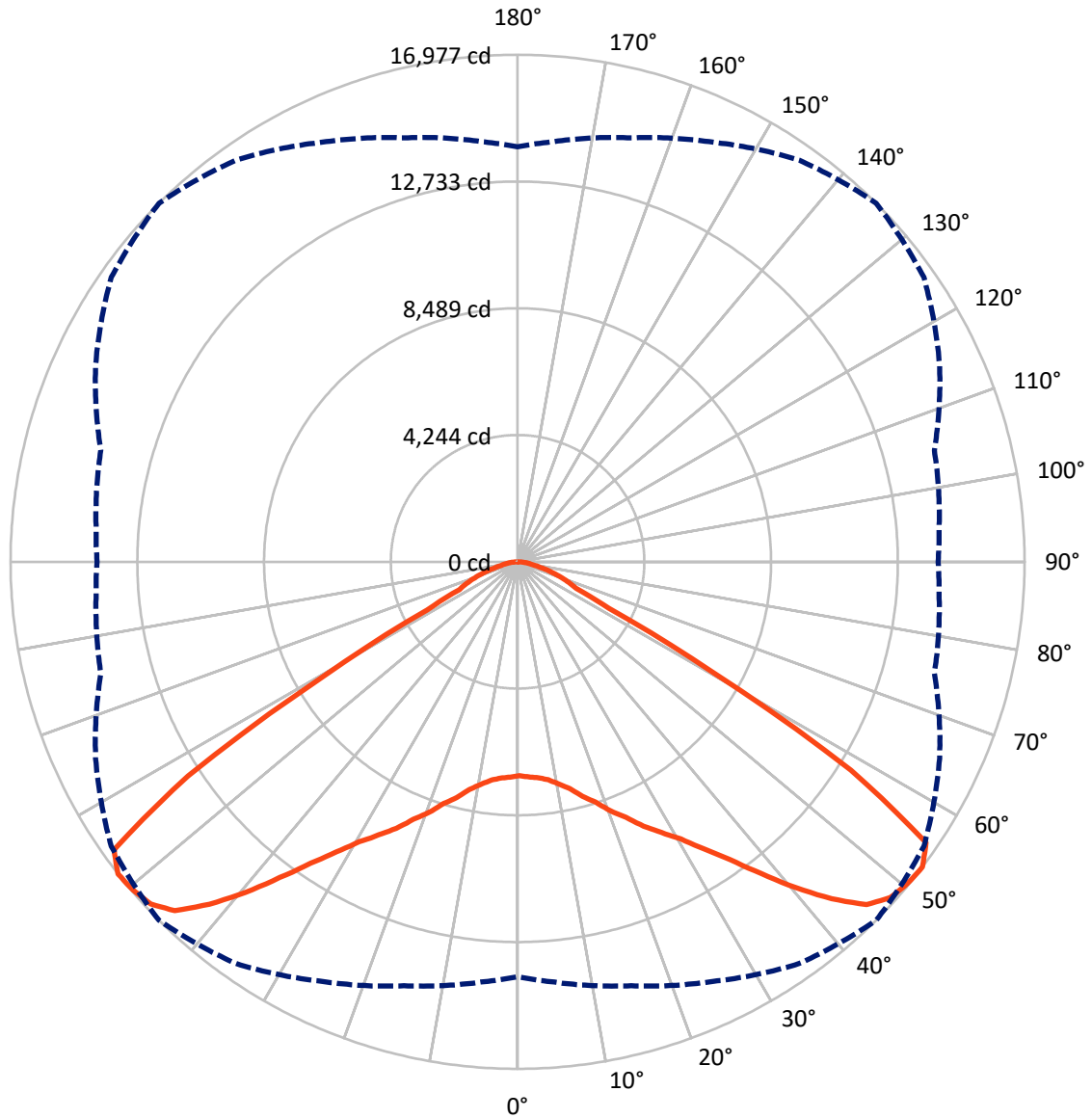
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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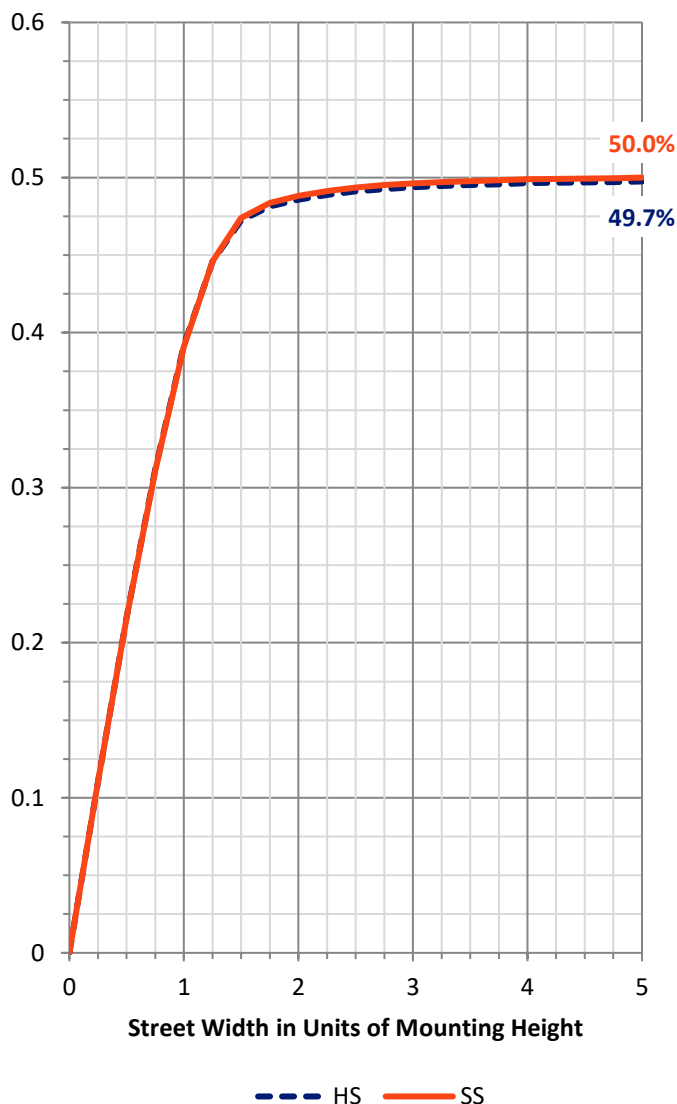
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21429.1	0.0	21429.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21429.1	0.0	21429.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42858.3	0.0	42858.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	703.9	1.6
10°-20°	2312.9	5.4
20°-30°	4403.4	10.3
30°-40°	7561.0	17.6
40°-50°	11621.4	27.1
50°-60°	11801.3	27.5
60°-70°	3288.9	7.7
70°-80°	970.2	2.3
80°-90°	195.4	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°	42858.3	100.0
0°-180°	42858.3	100.0

**Coefficient of Utilization**



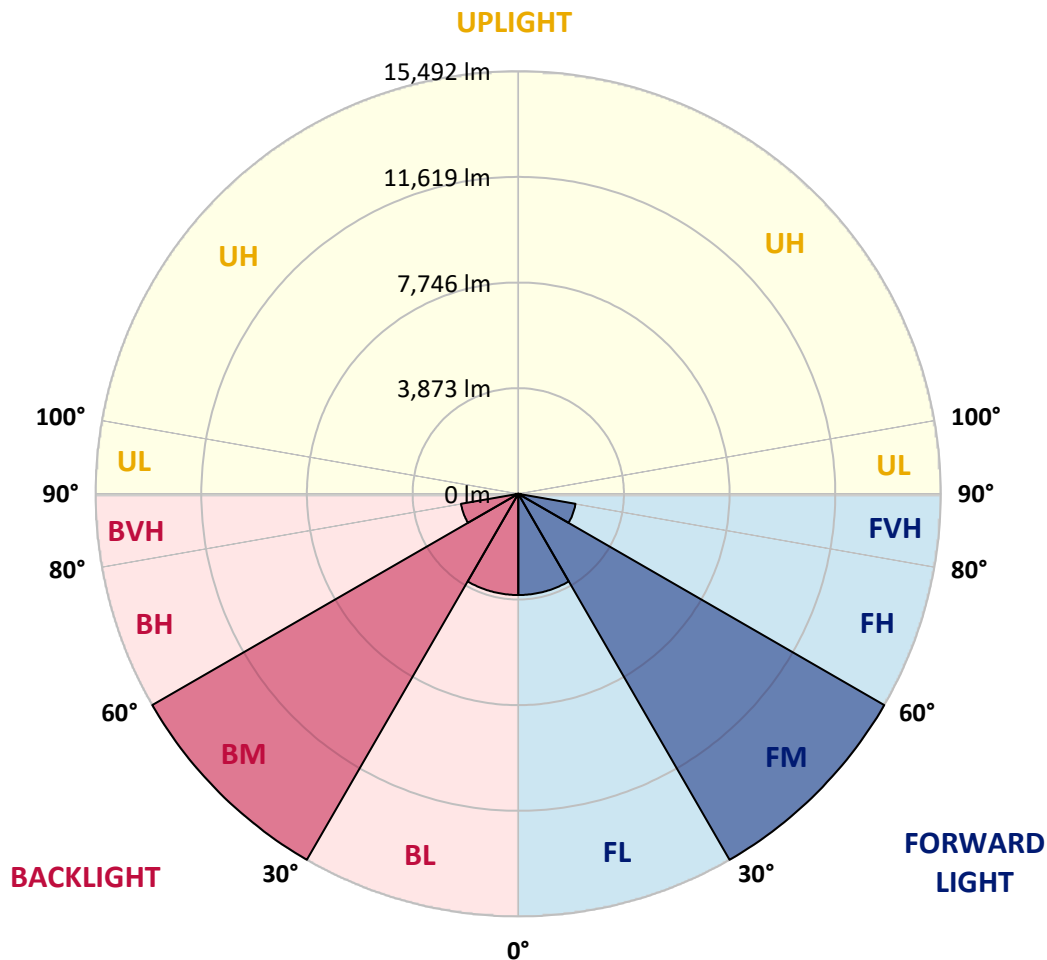
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3710.1	8.7			
FM (30°-60°)	15491.8	36.1			
FH (60°-80°)	2129.5	5.0			G2/5000
FVH (80°-90°)	97.7	0.2			G1/100
BL (0°-30°)	3710.1	8.7	B4/5000		
BM (30°-60°)	15491.8	36.1	B5		
BH (60°-80°)	2129.5	5.0	B3/2500		G2/5000
BVH (80°-90°)	97.7	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°	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3	7164.3
2.5°	7180.3	7105.8	7132.4	7148.4	7217.5	7212.2	7196.2	7217.5	7238.8	7244.1	7233.4
5°	7174.9	7121.8	7143.1	7159.0	7228.2	7265.4	7254.7	7345.2	7409.0	7393.0	7472.8
7.5°	7132.4	7164.3	7137.7	7217.5	7276.0	7366.5	7462.1	7547.3	7627.0	7717.5	7733.5
10°	7228.2	7228.2	7276.0	7339.8	7494.1	7563.2	7701.5	7823.8	7978.1	8084.5	8041.9
12.5°	7329.2	7345.2	7345.2	7510.1	7637.7	7791.9	7919.6	8084.5	8302.5	8430.2	8494.0
15°	7430.3	7440.9	7494.1	7717.5	7908.9	8153.6	8270.6	8419.5	8541.9	8781.2	8786.5
17.5°	7520.7	7579.2	7738.8	7988.7	8228.1	8462.1	8648.2	8802.5	8908.9	9004.6	8983.4
20°	7861.1	7903.6	8068.5	8318.5	8674.9	8903.6	8967.4	8994.0	9063.1	9254.6	9196.1
22.5°	8190.8	8206.8	8361.0	8744.0	8994.0	9297.1	9366.2	9350.4	9376.9	9424.8	9509.8
25°	8531.3	8557.8	8770.6	9095.0	9446.0	9807.7	9866.3	9743.9	9706.7	9759.9	9765.2
27.5°	8967.4	8972.7	9243.9	9525.8	9924.8	10265.1	10355.6	10259.8	10084.3	10126.9	10196.0
30°	9520.5	9483.3	9754.5	10158.8	10579.0	10770.4	10924.7	10876.8	10685.3	10648.1	10589.6
32.5°	10158.8	10169.4	10414.1	10855.5	11132.1	11451.2	11616.1	11536.3	11414.0	11350.1	11387.4
35°	11057.6	11105.5	11270.4	11637.4	12084.1	12243.7	12504.4	12334.1	12015.0	12094.8	12163.9
37.5°	11796.9	11935.2	12243.7	12679.8	12945.8	13238.3	13334.0	13105.4	12871.3	12775.6	13004.3
40°	12929.8	12887.3	13227.7	13663.8	14057.4	14350.0	14227.6	13998.9	13419.1	13424.5	13488.3
42.5°	13903.2	13924.4	14185.1	14706.3	15243.4	15424.3	15036.0	14477.6	13834.0	13764.9	13903.2
45°	14722.3	14807.3	14956.2	15653.0	16179.6	16376.4	15658.4	14998.8	14137.1	13849.9	14078.7
47.5°	15014.8	15153.1	15477.5	16115.8	16636.9	16796.5	16222.1	15275.4	14419.1	13951.0	14073.3
50°	15057.3	15009.5	15541.3	16126.4	16583.8	16929.5	16424.2	15477.5	14350.0	14105.3	14068.0
52.5°	13892.5	14126.6	14695.7	15498.8	16424.2	16977.4	16605.1	15589.2	14445.6	14169.1	14078.7
55°	11243.8	10967.2	12004.4	13355.3	15057.3	16594.4	16541.3	15647.7	14504.1	14275.5	14153.1
57.5°	6276.1	6355.8	6940.9	8408.9	10605.6	13158.5	14706.3	15030.7	14477.6	14344.6	14408.5
60°	2904.0	2930.6	3180.6	3866.7	5228.3	7462.1	9499.3	11568.2	12520.3	12711.8	12711.8
62.5°	2164.8	2154.1	2217.9	2340.2	2627.4	3430.6	4579.5	6222.9	7531.3	8446.1	8685.5
65°	1957.3	1951.9	1983.9	2026.4	2047.7	2159.4	2414.7	2920.0	3345.4	3590.1	3547.6
67.5°	1712.7	1707.3	1718.0	1744.5	1781.8	1840.3	1904.1	2010.5	2159.4	2148.8	2122.2
70°	1382.9	1382.9	1398.8	1420.1	1462.6	1531.8	1606.2	1680.7	1808.3	1835.0	1829.6
72.5°	1021.2	1005.2	1037.2	1079.7	1122.3	1207.4	1287.1	1356.3	1446.7	1473.3	1462.6
75°	648.9	659.5	680.8	728.7	803.1	861.6	946.7	1005.2	1063.8	1085.0	1090.3
77.5°	361.7	372.3	409.5	468.1	542.5	606.4	680.8	728.7	765.9	771.2	776.5
80°	218.1	223.4	260.6	313.8	377.6	446.8	505.3	553.1	585.1	569.1	563.8
82.5°	133.0	138.3	170.2	218.1	271.2	324.5	388.3	430.8	462.8	441.5	420.2
85°	69.1	74.5	101.1	133.0	175.5	202.1	202.1	180.9	175.5	164.9	159.6
87.5°	21.3	21.3	26.6	31.9	26.6	31.9	37.2	42.5	42.5	47.8	42.5
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)