

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: P651337

Luminaire Tested: **GALN-SA4D-840-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651337  
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-SA4D-840-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 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: 22551.4 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

Input Watts (W): 245  
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

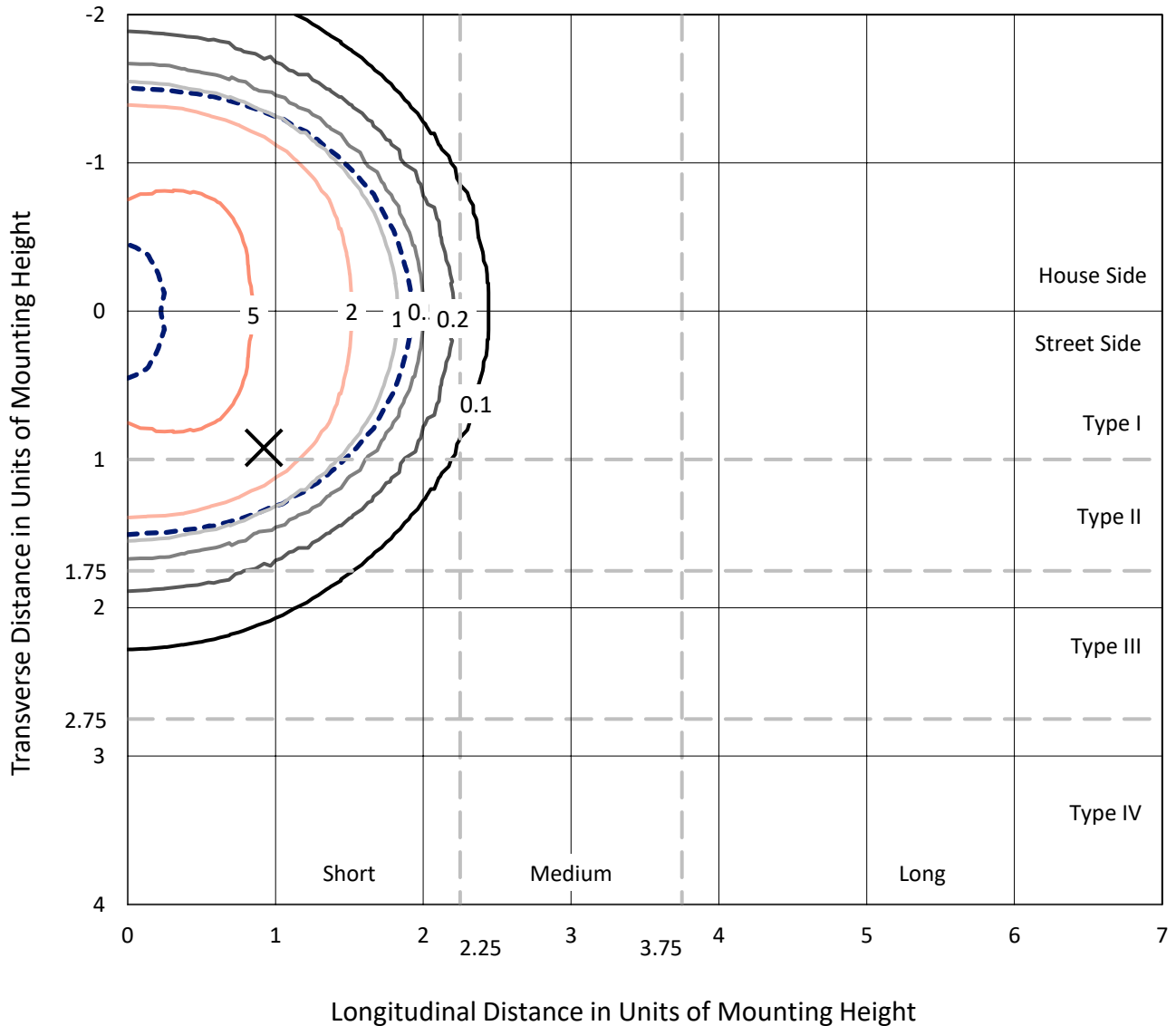




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### Iso-Footcandle Lines of Horizontal Illumination

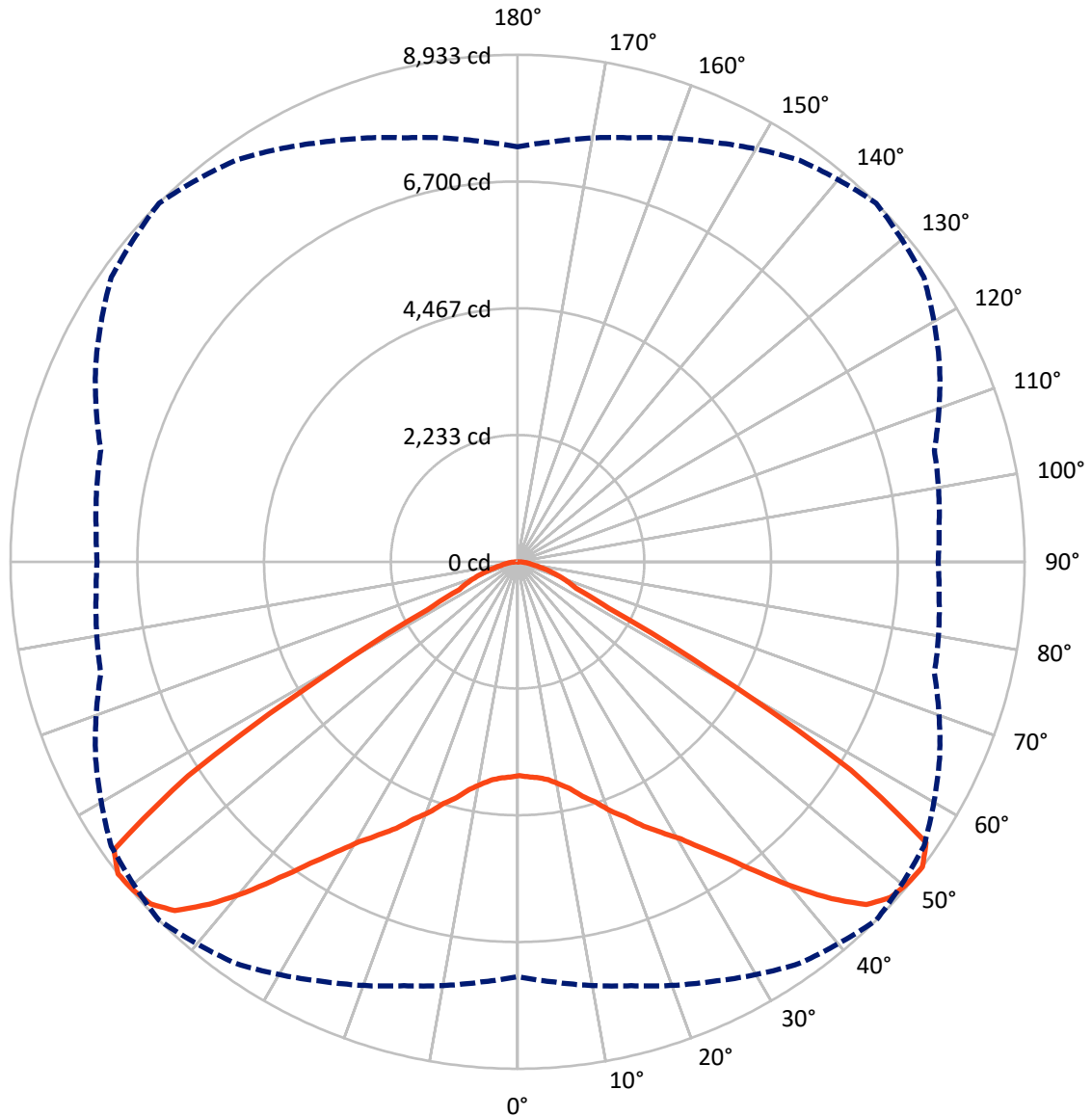
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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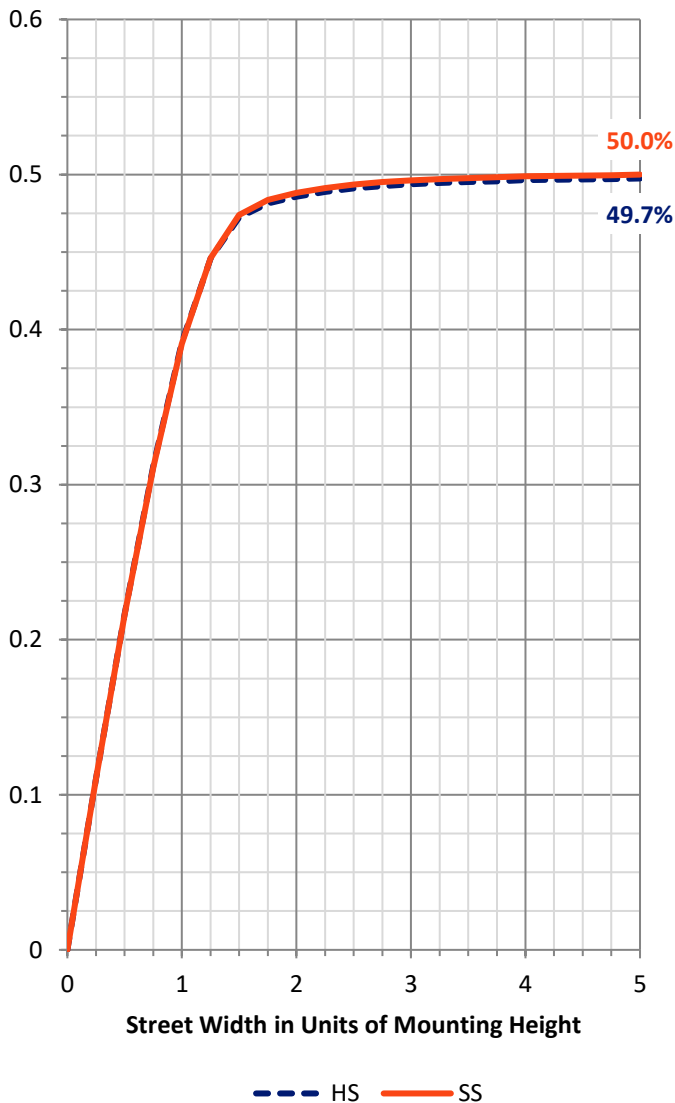
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11275.7	0.0	11275.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11275.7	0.0	11275.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22551.4	0.0	22551.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.4	1.6
10°-20°	1217.0	5.4
20°-30°	2317.0	10.3
30°-40°	3978.5	17.6
40°-50°	6115.0	27.1
50°-60°	6209.7	27.5
60°-70°	1730.6	7.7
70°-80°	510.5	2.3
80°-90°	102.8	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°	22551.4	100.0
0°-180°	22551.4	100.0

**Coefficient of Utilization**

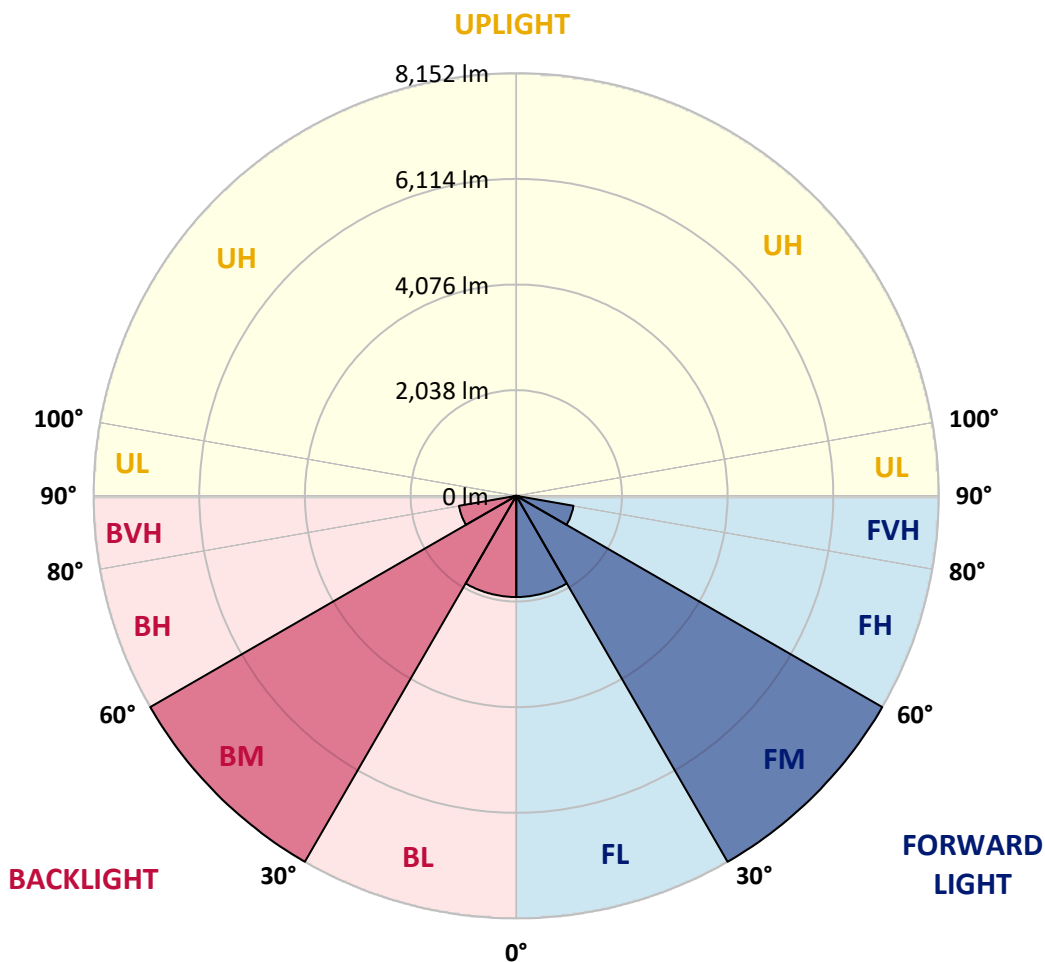


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1952.2	8.7			
FM (30°-60°)	8151.6	36.1			
FH (60°-80°)	1120.5	5.0			G1/1800
FVH (80°-90°)	51.4	0.2			G1/100
BL (0°-30°)	1952.2	8.7	B3/2500		
BM (30°-60°)	8151.6	36.1	B4/8500		
BH (60°-80°)	1120.5	5.0	B3/2500		G1/1800
BVH (80°-90°)	51.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8	3769.8
2.5°	3778.2	3739.0	3753.0	3761.4	3797.8	3794.9	3786.5	3797.8	3809.0	3811.7	3806.1
5°	3775.3	3747.4	3758.6	3767.0	3803.3	3822.9	3817.4	3864.9	3898.5	3890.1	3932.1
7.5°	3753.0	3769.8	3755.7	3797.8	3828.6	3876.1	3926.5	3971.3	4013.3	4060.9	4069.2
10°	3803.3	3803.3	3828.6	3862.1	3943.3	3979.7	4052.4	4116.8	4197.9	4253.9	4231.6
12.5°	3856.5	3864.9	3864.9	3951.7	4018.9	4100.0	4167.2	4253.9	4368.7	4435.9	4469.4
15°	3909.7	3915.3	3943.3	4060.9	4161.6	4290.3	4351.9	4430.2	4494.6	4620.5	4623.3
17.5°	3957.2	3988.0	4072.0	4203.6	4329.5	4452.7	4550.6	4631.7	4687.7	4738.1	4726.9
20°	4136.4	4158.7	4245.5	4377.1	4564.6	4685.0	4718.5	4732.5	4768.9	4869.6	4838.9
22.5°	4309.9	4318.3	4399.4	4600.9	4732.5	4892.0	4928.4	4920.0	4934.0	4959.2	5004.0
25°	4489.0	4503.1	4615.0	4785.7	4970.4	5160.7	5191.5	5127.1	5107.5	5135.5	5138.3
27.5°	4718.5	4721.3	4864.0	5012.4	5222.3	5401.4	5448.9	5398.5	5306.2	5328.6	5365.0
30°	5009.6	4990.0	5132.7	5345.4	5566.5	5667.2	5748.4	5723.3	5622.5	5602.9	5572.1
32.5°	5345.4	5351.0	5479.7	5712.0	5857.6	6025.4	6112.2	6070.3	6005.9	5972.3	5991.9
35°	5818.4	5843.5	5930.3	6123.4	6358.5	6442.5	6579.6	6490.1	6322.1	6364.1	6400.5
37.5°	6207.4	6280.2	6442.5	6672.0	6811.8	6965.8	7016.2	6895.9	6772.7	6722.4	6842.7
40°	6803.5	6781.1	6960.2	7189.7	7396.8	7550.8	7486.3	7366.0	7061.0	7063.7	7097.4
42.5°	7315.6	7326.9	7464.0	7738.2	8020.9	8116.1	7911.8	7617.9	7279.3	7242.9	7315.6
45°	7746.6	7791.4	7869.7	8236.4	8513.4	8617.0	8239.2	7892.2	7438.8	7287.7	7408.0
47.5°	7900.5	7973.4	8144.1	8479.9	8754.1	8838.1	8535.8	8037.7	7587.1	7340.8	7405.2
50°	7923.0	7897.7	8177.6	8485.4	8726.1	8908.0	8642.2	8144.1	7550.8	7422.0	7402.4
52.5°	7310.1	7433.2	7732.7	8155.3	8642.2	8933.3	8737.3	8202.8	7601.1	7455.5	7408.0
55°	5916.4	5770.8	6316.5	7027.4	7923.0	8731.8	8703.8	8233.6	7631.9	7511.6	7447.1
57.5°	3302.4	3344.4	3652.2	4424.7	5580.5	6923.9	7738.2	7908.9	7617.9	7547.9	7581.5
60°	1528.1	1542.1	1673.6	2034.6	2751.1	3926.5	4998.4	6087.1	6588.0	6688.7	6688.7
62.5°	1139.1	1133.4	1167.1	1231.4	1382.5	1805.1	2409.6	3274.4	3962.9	4444.3	4570.2
65°	1029.9	1027.1	1043.9	1066.3	1077.5	1136.3	1270.6	1536.4	1760.4	1889.1	1866.7
67.5°	901.1	898.4	904.0	918.0	937.5	968.3	1001.9	1057.9	1136.3	1130.6	1116.7
70°	727.6	727.6	736.0	747.2	769.6	806.0	845.2	884.4	951.5	965.6	962.7
72.5°	537.3	528.9	545.7	568.1	590.6	635.3	677.3	713.7	761.2	775.2	769.6
75°	341.4	347.0	358.3	383.4	422.6	453.4	498.1	528.9	559.8	571.0	573.7
77.5°	190.3	195.9	215.5	246.2	285.4	319.1	358.3	383.4	403.0	405.8	408.6
80°	114.7	117.6	137.2	165.1	198.7	235.1	265.8	291.1	307.9	299.5	296.6
82.5°	70.0	72.7	89.6	114.7	142.7	170.7	204.3	226.6	243.5	232.3	221.1
85°	36.4	39.2	53.2	70.0	92.3	106.4	106.4	95.1	92.3	86.8	83.9
87.5°	11.2	11.2	14.0	16.8	14.0	16.8	19.6	22.4	22.4	25.1	22.4
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)