

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: P650835

Luminaire Tested: **GALN-SA4C-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-840-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19843.4 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

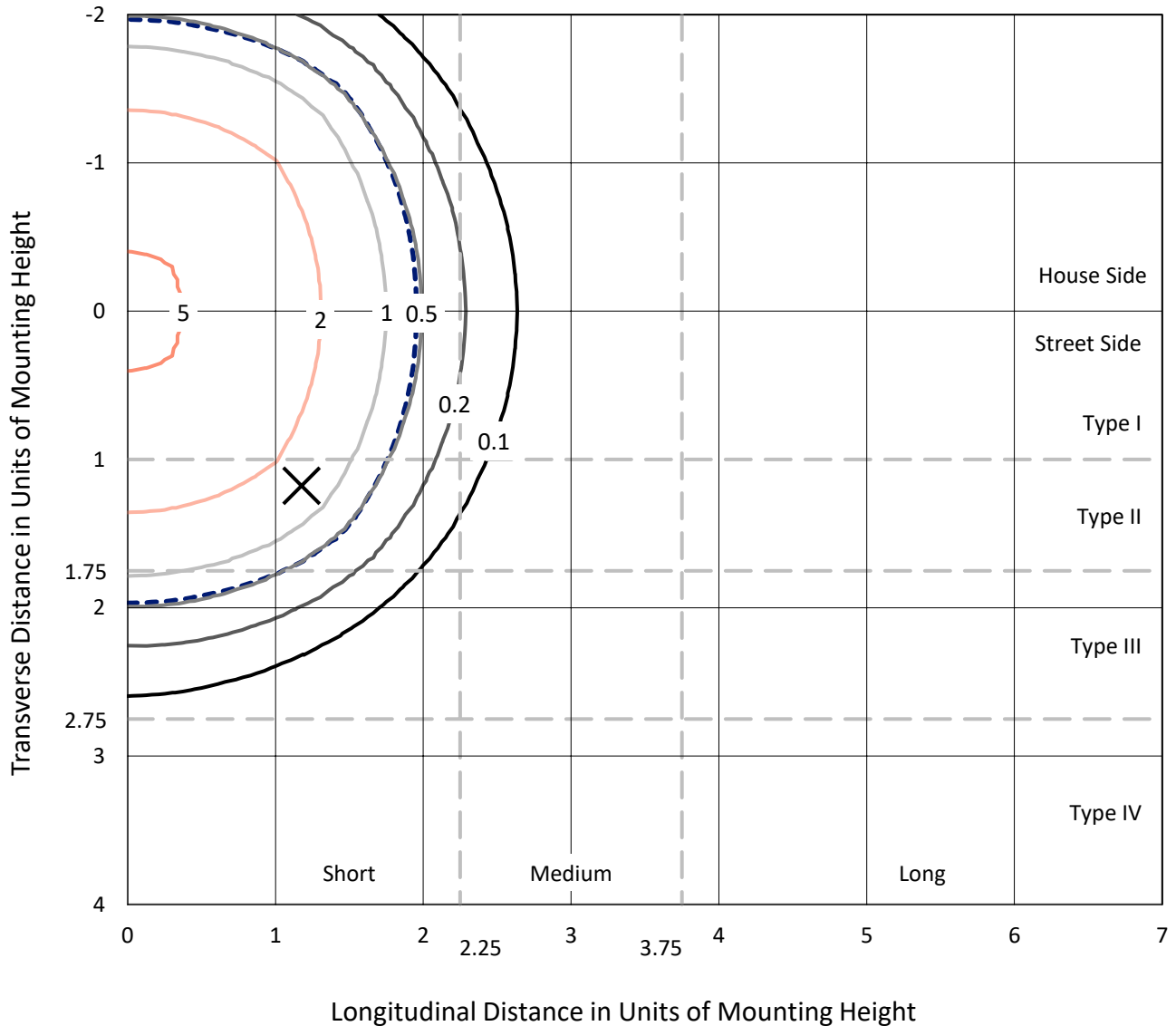
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

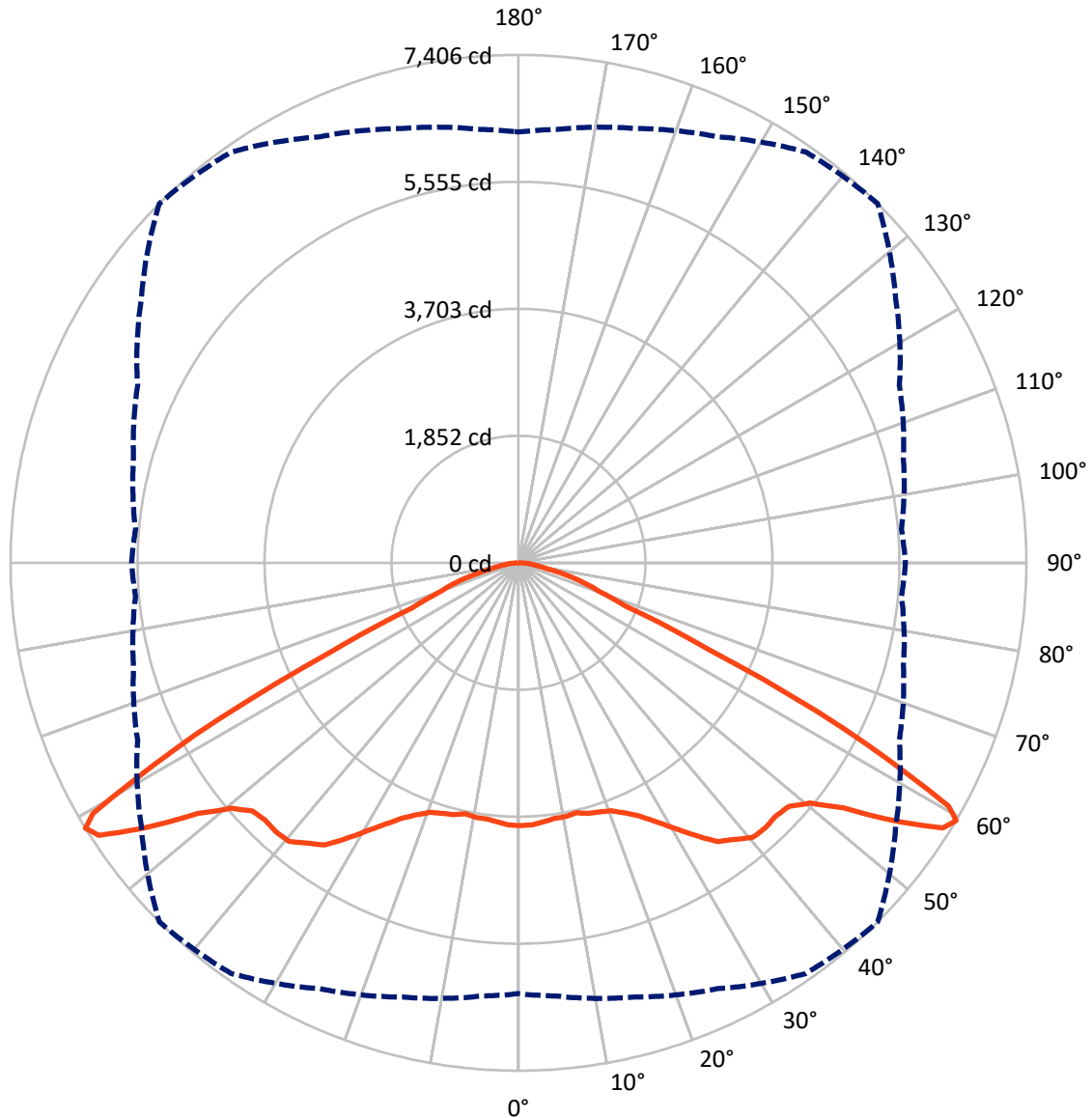
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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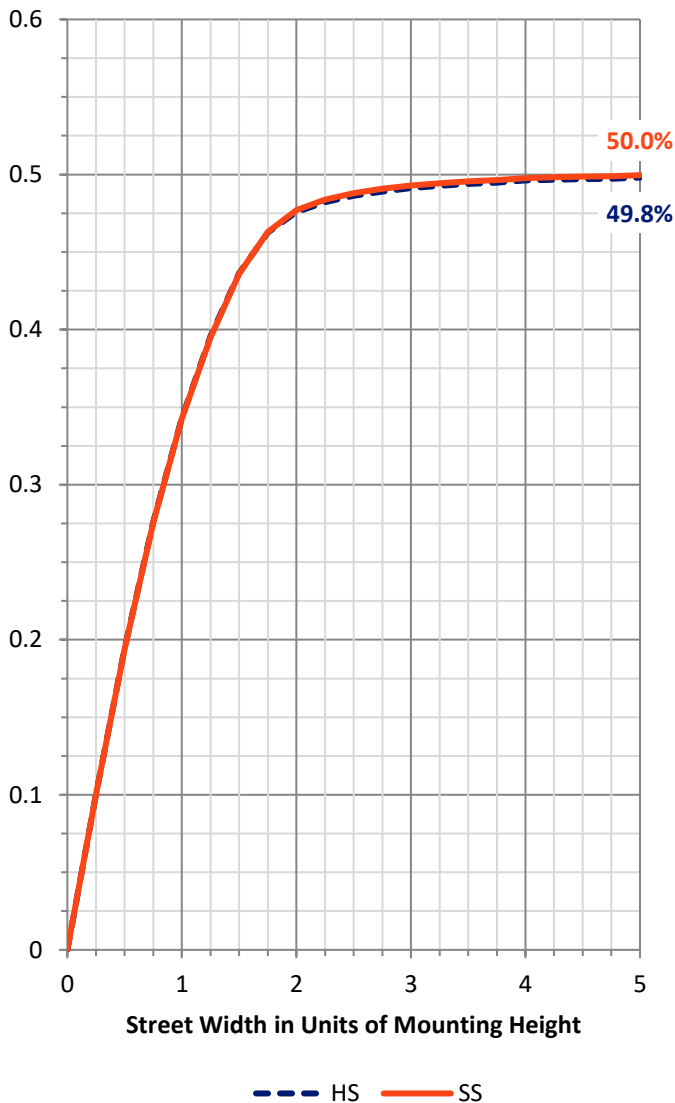
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9921.7	0.0	9921.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9921.7	0.0	9921.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19843.4	0.0	19843.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.3	1.8
10°-20°	1074.5	5.4
20°-30°	1876.2	9.5
30°-40°	2996.5	15.1
40°-50°	4081.8	20.6
50°-60°	5519.7	27.8
60°-70°	3027.0	15.3
70°-80°	774.4	3.9
80°-90°	132.1	0.7
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°	19843.4	100.0
0°-180°	19843.4	100.0

**Coefficient of Utilization**

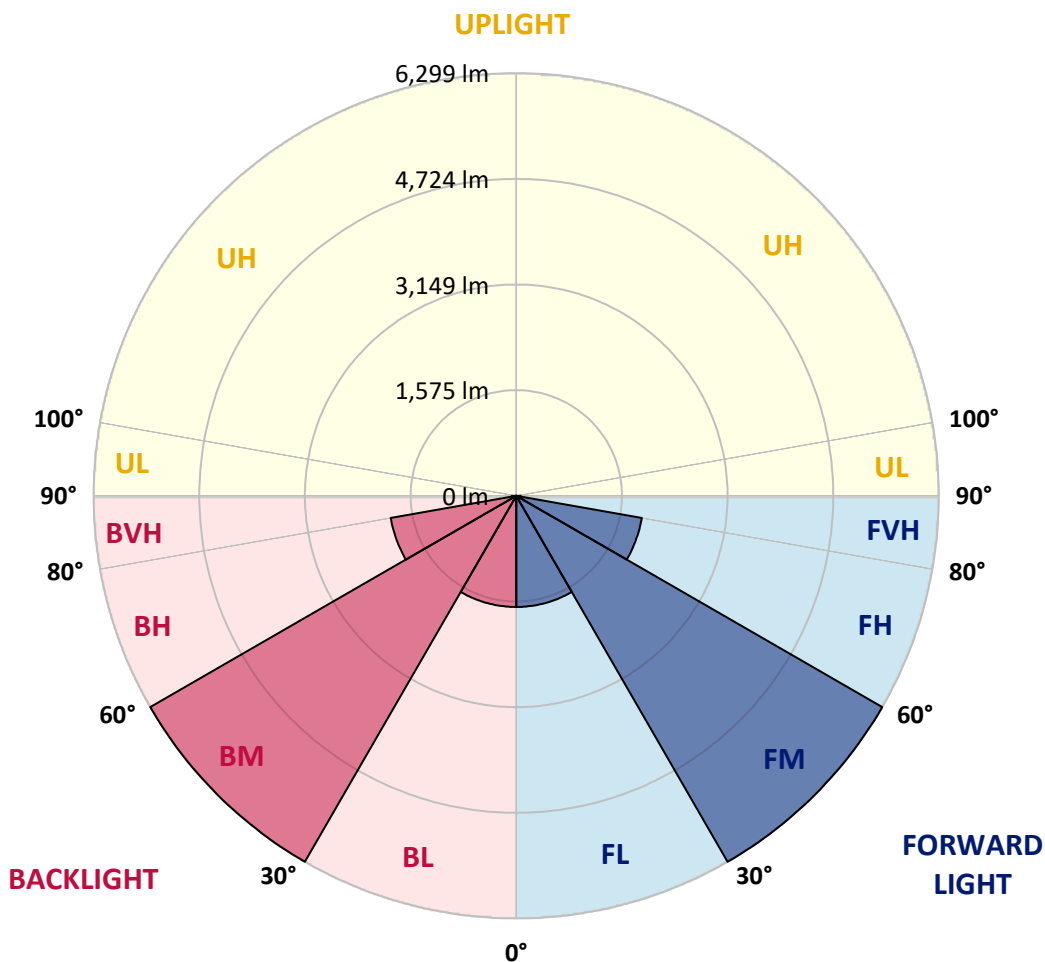


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1656.0	8.3			
FM (30°-60°)	6299.0	31.7			
FH (60°-80°)	1900.7	9.6			G2/5000
FVH (80°-90°)	66.0	0.3			G1/100
BL (0°-30°)	1656.0	8.3	B3/2500		
BM (30°-60°)	6299.0	31.7	B4/8500		
BH (60°-80°)	1900.7	9.6	B3/2500		G2/5000
BVH (80°-90°)	66.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3832.8	3832.8	3832.8	3832.8	3832.8	3832.8	3832.8	3832.8	3832.8	3832.8	3832.8
2.5°	3809.9	3837.9	3817.6	3835.3	3832.8	3825.2	3812.4	3804.9	3794.7	3809.9	3784.5
5°	3794.7	3817.6	3840.4	3809.9	3809.9	3794.7	3787.0	3771.7	3771.7	3769.2	3766.7
7.5°	3820.1	3797.2	3787.0	3792.1	3797.2	3764.1	3787.0	3756.5	3731.1	3748.8	3769.2
10°	3797.2	3807.4	3769.2	3787.0	3759.0	3764.1	3748.8	3769.2	3741.3	3741.3	3741.3
12.5°	3820.1	3792.1	3804.9	3792.1	3784.5	3741.3	3761.5	3738.7	3736.1	3761.5	3738.7
15°	3865.8	3820.1	3809.9	3784.5	3792.1	3792.1	3771.7	3774.3	3746.3	3761.5	3766.7
17.5°	3850.6	3825.2	3817.6	3787.0	3812.4	3820.1	3781.9	3756.5	3774.3	3771.7	3769.2
20°	3863.3	3873.5	3865.8	3871.0	3881.1	3860.8	3825.2	3789.5	3766.7	3799.7	3797.2
22.5°	3944.7	3934.5	3929.4	3924.4	3942.2	3962.5	3914.2	3858.3	3858.3	3881.1	3891.3
25°	4010.8	4008.3	4005.8	4028.6	4089.7	4089.7	4028.6	3957.4	3939.6	3954.9	3942.2
27.5°	4107.4	4135.4	4125.3	4166.0	4255.0	4275.3	4194.0	4110.1	4061.7	4043.9	4066.7
30°	4328.7	4295.7	4303.3	4346.5	4425.4	4491.5	4366.9	4277.9	4211.7	4209.2	4219.4
32.5°	4476.2	4501.7	4524.6	4565.3	4689.9	4740.8	4590.7	4445.8	4405.1	4382.1	4389.8
35°	4771.2	4748.4	4743.3	4784.0	4908.6	4992.5	4804.4	4677.2	4623.7	4674.6	4674.6
37.5°	5051.0	4987.5	4939.1	4992.5	5107.0	5117.1	4956.9	4888.3	4860.3	4918.8	4916.2
40°	5183.3	5178.2	5066.3	5096.8	5249.4	5264.7	5114.6	5033.2	5028.2	5104.4	5180.7
42.5°	5320.7	5272.3	5160.4	5180.7	5274.8	5280.0	5137.5	5114.6	5170.6	5244.3	5249.4
45°	5343.5	5302.8	5231.6	5180.7	5249.4	5264.7	5180.7	5196.0	5201.1	5290.1	5290.1
47.5°	5389.3	5384.3	5343.5	5305.4	5318.1	5305.4	5252.0	5274.8	5351.2	5394.4	5374.1
50°	5516.5	5463.1	5503.8	5470.7	5473.2	5508.9	5460.5	5483.4	5468.2	5430.0	5404.6
52.5°	5796.3	5770.8	5806.4	5829.3	5854.7	5936.1	5880.2	5758.1	5643.6	5541.9	5539.3
55°	6205.7	6223.5	6292.2	6409.2	6508.4	6638.1	6368.5	6076.0	5892.9	5732.7	5742.9
57.5°	6592.3	6579.6	6673.7	6940.8	7230.7	7296.8	6767.8	6350.7	6053.1	5951.4	5908.1
59°	6282.0	6343.1	6556.7	6854.2	7309.6	7406.2	6714.4	6126.9	5811.5	5605.5	5641.1
60°	5793.7	5816.6	6007.3	6421.9	7037.4	7202.7	6355.8	5780.9	5361.4	5241.8	5295.2
62.5°	4094.7	4076.9	4214.3	4552.6	5104.4	5328.2	4725.5	4321.1	4056.6	3924.4	3954.9
65°	2177.1	2258.5	2314.4	2525.5	2818.0	3054.5	2805.3	2629.8	2482.3	2373.0	2370.4
67.5°	1470.1	1459.9	1472.6	1520.9	1620.1	1686.2	1681.2	1592.1	1579.4	1559.0	1581.9
70°	1238.6	1233.5	1210.6	1210.6	1231.0	1246.2	1264.0	1274.2	1294.6	1319.9	1317.4
72.5°	1004.6	991.9	976.7	969.0	994.5	1002.1	1024.9	1035.1	1052.9	1050.4	1073.3
75°	663.8	663.8	681.6	702.0	709.6	724.9	727.4	757.9	757.9	763.0	742.7
77.5°	371.3	361.1	373.9	394.2	412.0	440.0	467.9	490.9	503.6	498.5	498.5
80°	216.2	216.2	228.9	251.8	274.7	300.2	320.4	338.3	350.9	345.9	335.7
82.5°	134.8	134.8	147.5	170.4	188.2	203.4	231.4	254.3	269.6	264.5	251.8
85°	68.7	68.7	83.9	99.2	122.1	132.3	129.7	119.5	117.0	104.3	104.3
87.5°	17.8	17.8	25.4	28.0	22.9	25.4	25.4	25.4	25.4	25.4	28.0
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)