

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: P648409

Luminaire Tested: **GALN-SA5B-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648409  
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-SA5B-835-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 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: 19694 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

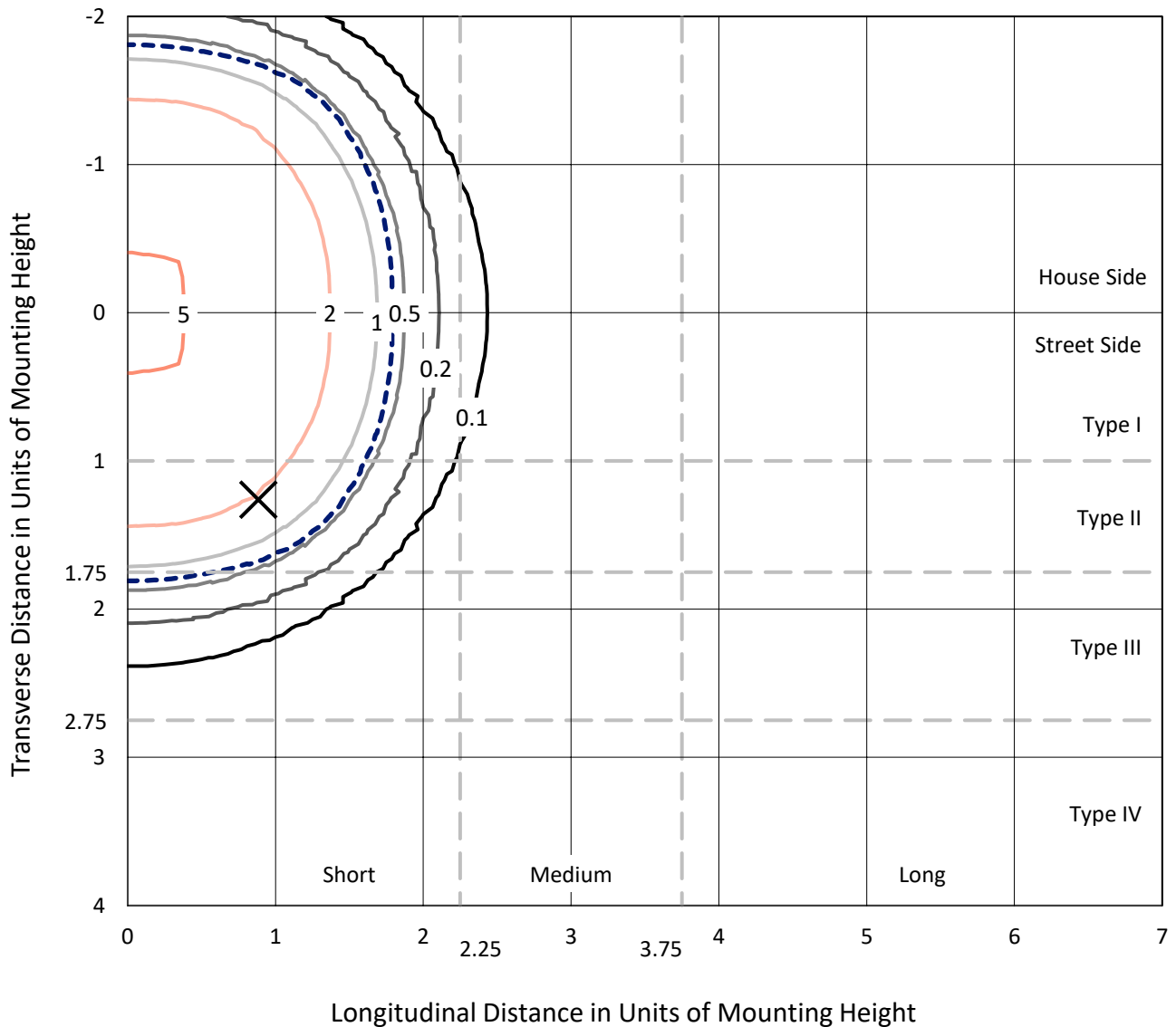
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

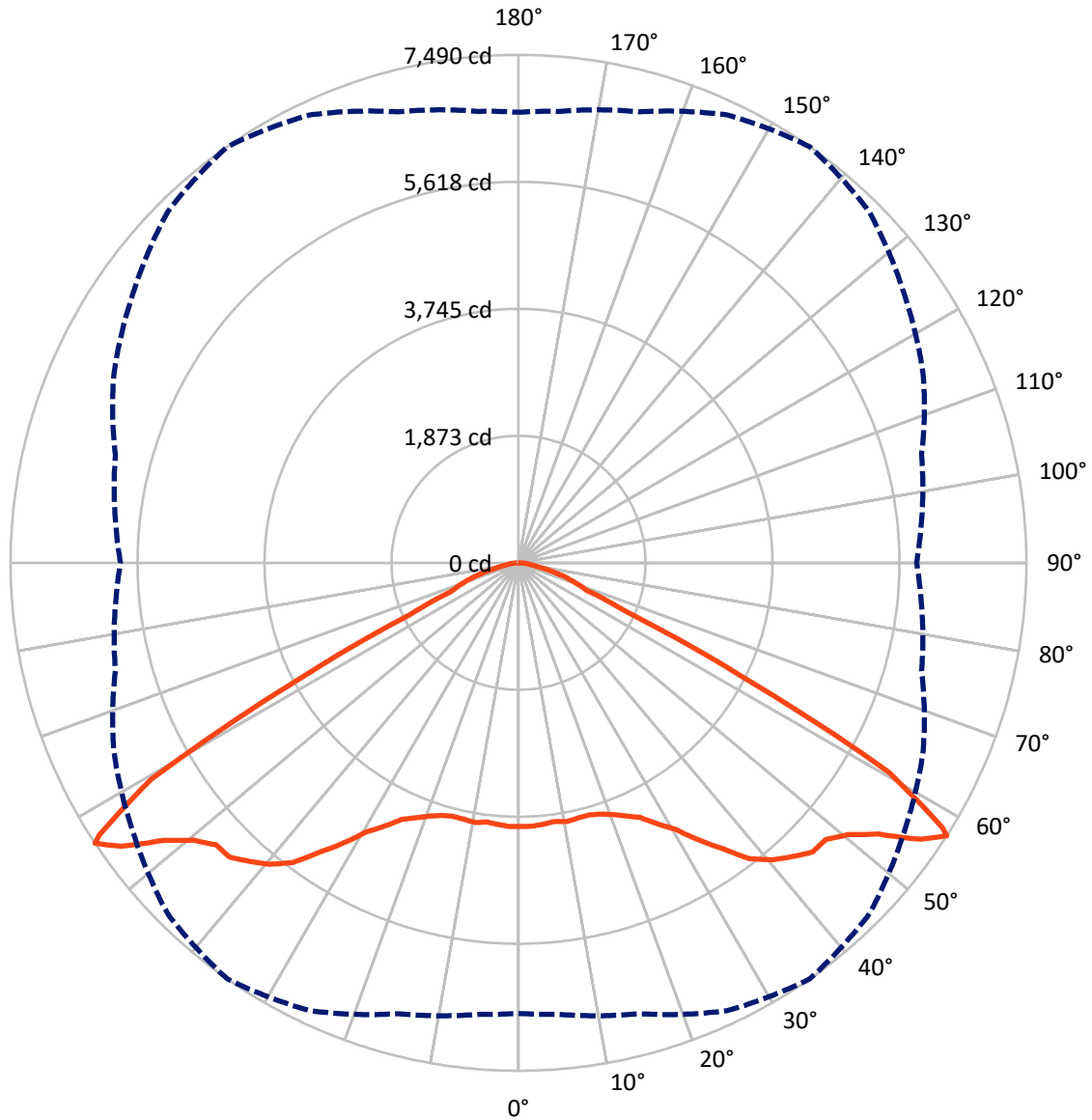
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	9847.0	0.0	9847.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9847.0	0.0	9847.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19694.0	0.0	19694.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	368.7	1.9
10°-20°	1092.1	5.5
20°-30°	1907.3	9.7
30°-40°	3125.2	15.9
40°-50°	4582.2	23.3
50°-60°	5771.7	29.3
60°-70°	2170.7	11.0
70°-80°	577.2	2.9
80°-90°	99.0	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°	19694.0	100.0
0°-180°	19694.0	100.0



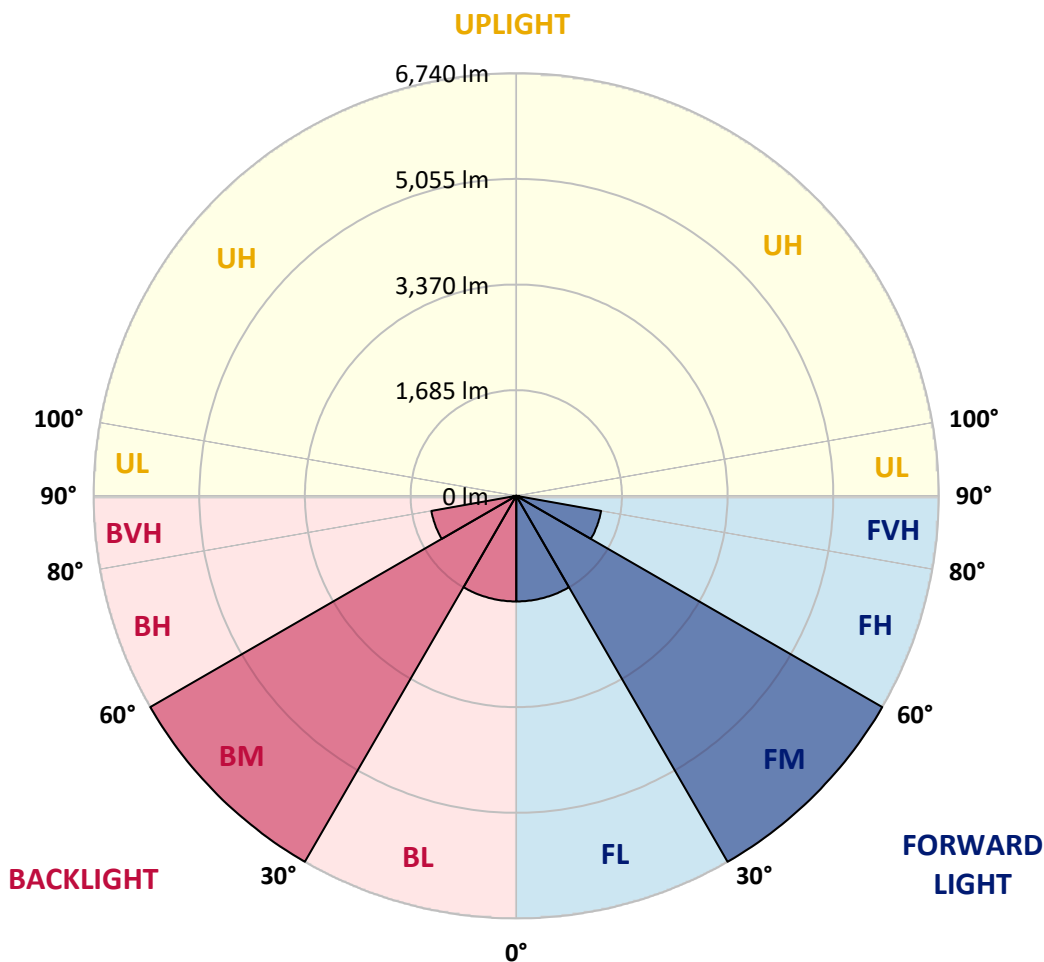
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.1	8.6			
FM (30°-60°)	6739.5	34.2			
FH (60°-80°)	1373.9	7.0			G1/1800
FVH (80°-90°)	49.5	0.3			G1/100
BL (0°-30°)	1684.1	8.6	B3/2500		
BM (30°-60°)	6739.5	34.2	B4/8500		
BH (60°-80°)	1373.9	7.0	B3/2500		G1/1800
BVH (80°-90°)	49.5	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3889.4	3889.4	3889.4	3889.4	3889.4	3889.4	3889.4	3889.4	3889.4	3889.4	3889.4
2.5°	3870.0	3908.8	3891.8	3882.1	3889.4	3877.3	3857.9	3879.7	3874.8	3855.5	3848.2
5°	3860.3	3889.4	3870.0	3889.4	3870.0	3904.0	3894.3	3857.9	3901.5	3860.3	3874.8
7.5°	3853.1	3862.7	3867.6	3857.9	3850.6	3891.8	3870.0	3853.1	3828.8	3821.5	3833.6
10°	3836.1	3860.3	3823.9	3872.4	3882.1	3853.1	3853.1	3821.5	3802.1	3790.0	3831.2
12.5°	3879.7	3838.5	3833.6	3857.9	3865.1	3877.3	3843.4	3826.4	3790.0	3794.8	3787.5
15°	3828.8	3845.8	3848.2	3853.1	3860.3	3889.4	3857.9	3821.5	3806.9	3756.0	3760.8
17.5°	3848.2	3831.2	3848.2	3904.0	3894.3	3916.1	3882.1	3826.4	3792.4	3763.3	3802.1
20°	3882.1	3874.8	3882.1	3950.1	3962.2	3981.6	3952.5	3901.5	3836.1	3802.1	3821.5
22.5°	3918.5	3913.7	3918.5	3984.1	4054.5	4078.6	4049.6	3930.7	3896.7	3833.6	3811.8
25°	3984.1	3988.9	4039.9	4112.6	4158.7	4204.9	4151.5	4066.5	3957.4	3918.5	3872.4
27.5°	4129.6	4141.8	4170.9	4277.6	4357.7	4399.0	4323.7	4207.3	4139.3	4059.2	4047.2
30°	4309.2	4309.2	4360.1	4452.4	4561.5	4624.6	4532.4	4394.1	4311.6	4267.9	4241.3
32.5°	4547.0	4520.3	4539.7	4702.2	4872.1	4925.5	4801.7	4631.9	4500.8	4442.7	4423.2
35°	4750.8	4767.8	4811.5	4986.1	5175.4	5299.1	5105.0	4884.2	4750.8	4697.4	4687.7
37.5°	5015.3	5044.4	5066.2	5306.4	5534.5	5580.6	5393.8	5216.7	5054.0	5010.4	4986.1
40°	5388.9	5369.5	5376.8	5553.9	5760.1	5789.3	5604.9	5478.7	5345.2	5318.5	5318.5
42.5°	5697.0	5675.2	5699.5	5765.0	5922.7	5900.8	5799.0	5706.7	5650.9	5621.9	5650.9
45°	5883.9	5879.0	5922.7	5971.2	6082.8	6010.1	5930.0	5944.5	5891.1	5842.6	5840.2
47.5°	6087.7	6056.1	6109.5	6182.3	6097.4	6063.4	6058.5	6090.1	6073.1	5988.2	5961.5
50°	6187.2	6175.1	6259.9	6344.9	6298.8	6221.2	6238.1	6289.1	6070.7	5956.7	5891.1
52.5°	6454.0	6456.5	6619.1	6665.1	6645.7	6531.7	6568.1	6429.8	6172.6	6012.5	6019.8
55°	6873.8	6856.8	7038.8	7174.7	7196.6	7050.9	6876.2	6682.1	6359.4	6196.9	6148.4
57°	6643.3	6682.1	6883.5	7286.3	7490.1	7317.8	6936.9	6582.7	6153.2	5956.7	5869.3
57.5°	6335.2	6398.3	6747.7	7152.9	7366.4	7351.8	6861.7	6398.3	6014.9	5709.2	5716.4
60°	4641.6	4653.7	4969.2	5612.2	6279.3	6293.9	5697.0	5083.2	4656.1	4323.7	4369.8
62.5°	2448.2	2504.0	2630.2	3147.0	3724.4	3865.1	3503.6	3188.2	2819.4	2567.1	2591.3
65°	1295.6	1288.3	1349.0	1494.6	1778.5	1851.3	1802.8	1552.8	1424.3	1383.0	1385.4
67.5°	1053.1	1065.2	1057.9	1065.2	1084.6	1116.1	1108.8	1118.5	1125.8	1137.9	1135.5
70°	892.9	892.9	897.7	900.1	900.1	914.7	931.7	963.2	965.7	977.8	982.7
72.5°	703.6	698.7	706.0	723.0	725.4	737.6	761.9	781.3	788.6	788.6	774.0
75°	478.0	482.9	492.6	507.1	521.6	543.5	562.9	575.0	579.9	572.6	565.3
77.5°	269.4	274.2	281.5	303.3	320.2	339.7	361.5	373.6	385.8	388.2	373.6
80°	160.1	160.1	172.3	189.3	208.7	228.1	247.5	262.1	266.9	266.9	259.6
82.5°	97.1	99.4	109.2	126.1	143.1	155.3	172.3	184.4	194.1	191.7	186.8
85°	51.0	51.0	60.7	75.2	87.4	99.4	99.4	92.2	87.4	75.2	70.4
87.5°	17.0	14.6	19.4	19.4	17.0	19.4	19.4	21.8	21.8	21.8	21.8
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)