

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: P530174

Luminaire Tested: **GALN-SA5B-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18868 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

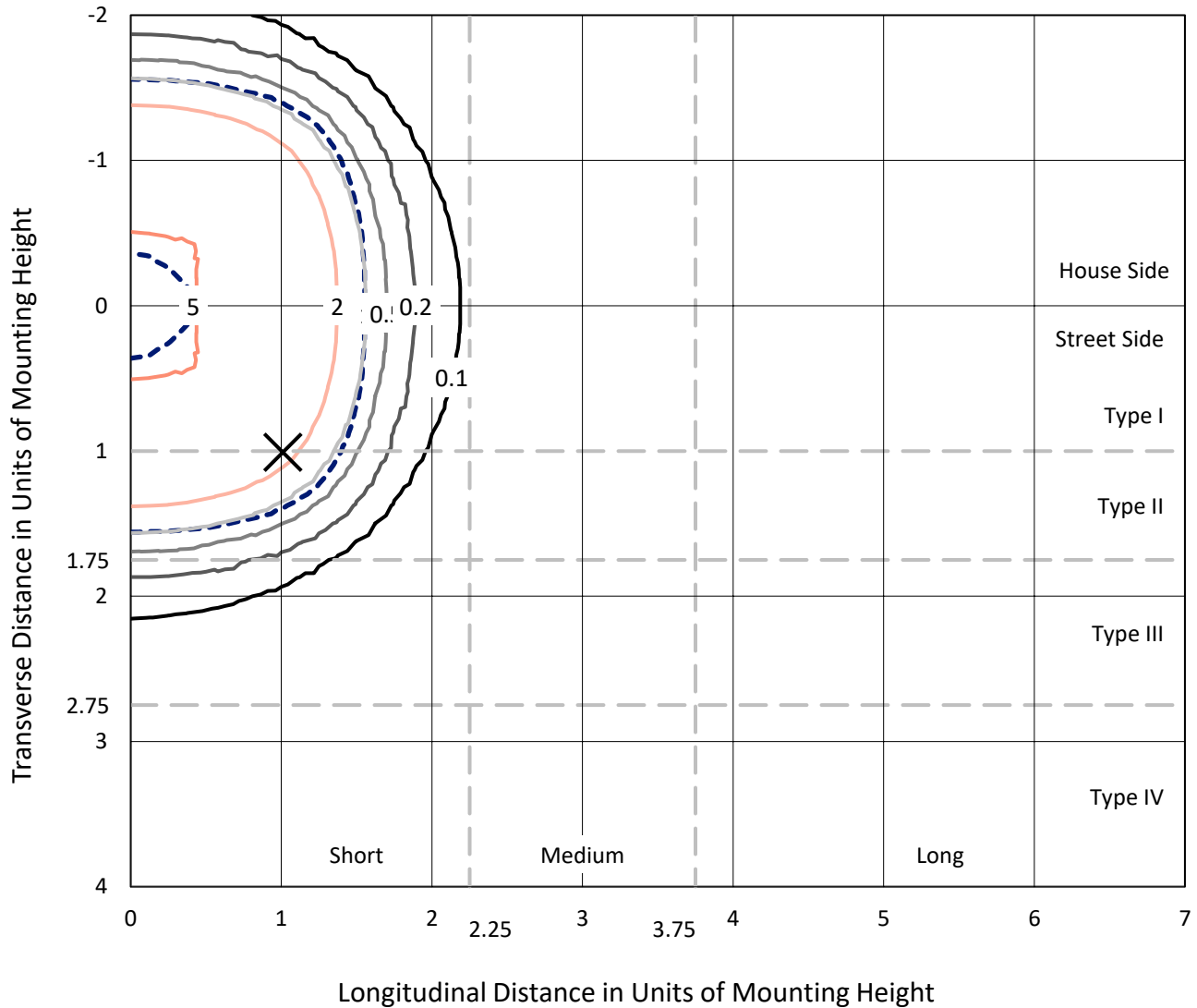
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

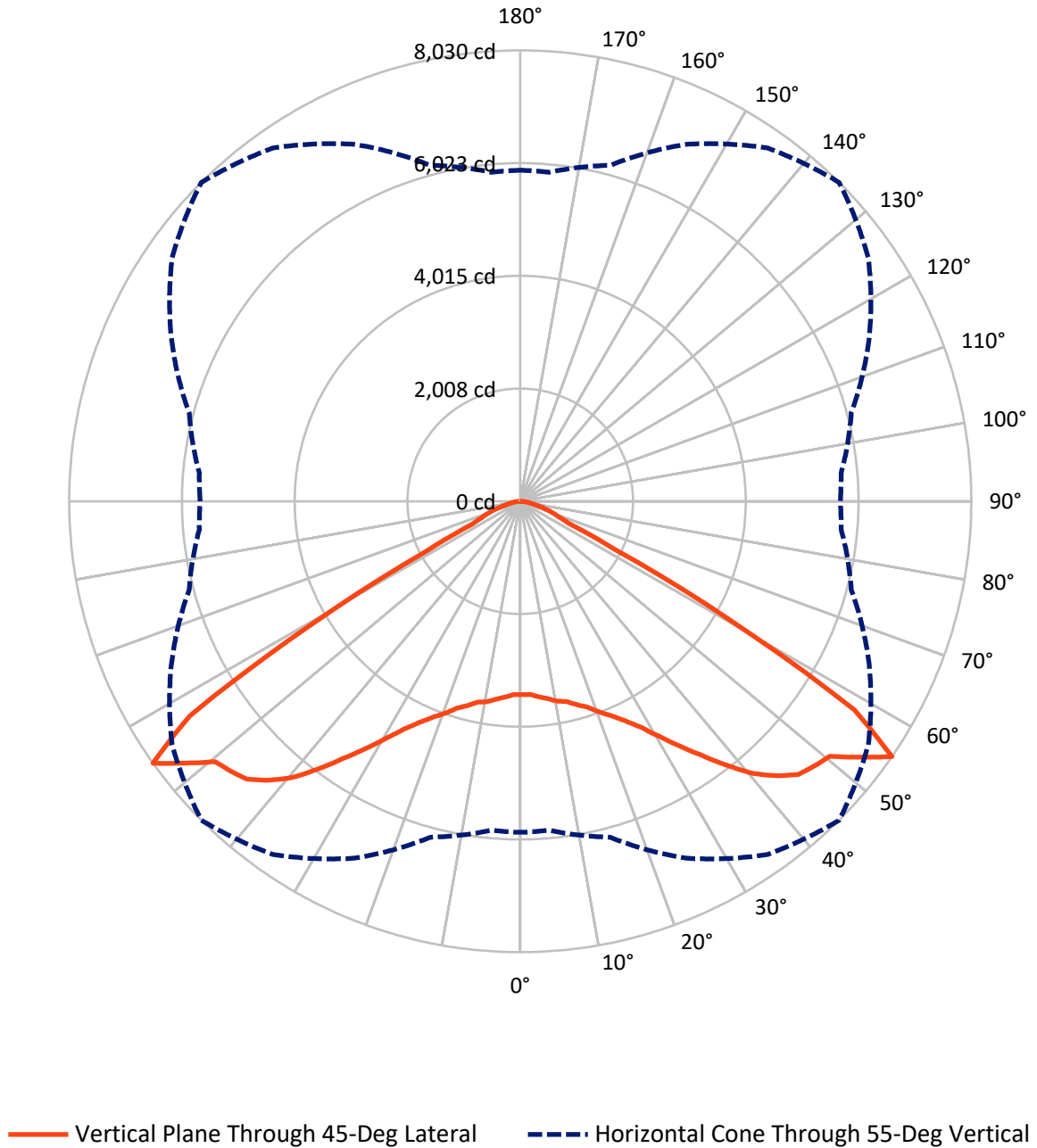
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9434.0	0.0	9434.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9434.0	0.0	9434.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18868.0	0.0	18868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.5	1.8
10°-20°	1066.3	5.7
20°-30°	1988.4	10.5
30°-40°	3329.2	17.6
40°-50°	5180.5	27.5
50°-60°	5379.0	28.5
60°-70°	1140.7	6.0
70°-80°	375.7	2.0
80°-90°	71.6	0.4
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°	18868.0	100.0
0°-180°	18868.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530174

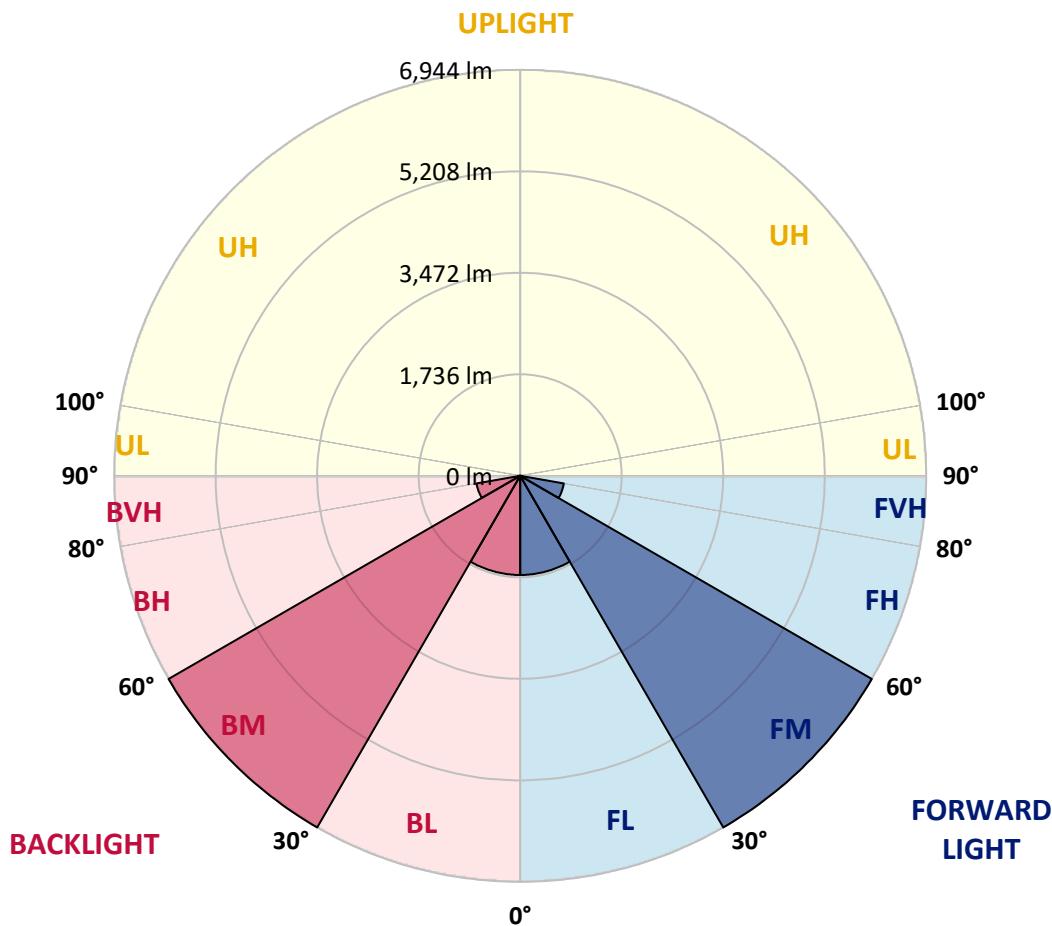
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1695.6	9.0			
FM (30°-60°)	6944.4	36.8			
FH (60°-80°)	758.2	4.0			G1/1800
FVH (80°-90°)	35.8	0.2			G1/100
BL (0°-30°)	1695.6	9.0	B3/2500		
BM (30°-60°)	6944.4	36.8	B4/8500		
BH (60°-80°)	758.2	4.0	B2/1000		G1/1800
BVH (80°-90°)	35.8	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°	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0	3445.0
2.5°	3486.1	3470.1	3442.7	3463.3	3479.2	3445.0	3458.7	3465.5	3461.0	3442.7	3449.6
5°	3536.2	3527.1	3504.3	3520.3	3499.7	3499.7	3486.1	3467.8	3495.2	3490.6	3502.0
7.5°	3536.2	3524.8	3570.4	3540.8	3549.9	3549.9	3527.1	3508.9	3522.5	3502.0	3490.6
10°	3606.9	3622.9	3602.3	3609.2	3604.6	3620.6	3586.4	3575.0	3563.6	3556.7	3543.1
12.5°	3691.3	3679.9	3686.7	3682.1	3698.1	3657.1	3636.5	3611.5	3632.0	3602.3	3622.9
15°	3759.6	3752.8	3759.6	3777.9	3761.9	3759.6	3723.2	3698.1	3666.2	3673.0	3641.1
17.5°	3853.1	3846.3	3848.6	3864.5	3862.2	3850.8	3823.5	3775.6	3764.2	3746.0	3725.5
20°	3992.2	3980.8	3976.2	3983.1	3994.5	4003.6	3948.9	3930.6	3891.9	3862.2	3828.0
22.5°	4110.8	4106.2	4124.4	4094.8	4119.9	4147.2	4094.8	4085.7	3989.9	3974.0	3937.5
25°	4274.9	4268.1	4256.7	4300.0	4329.6	4327.4	4277.2	4227.0	4154.1	4135.8	4135.8
27.5°	4448.2	4409.4	4468.7	4480.1	4532.6	4548.5	4505.2	4432.2	4363.8	4325.1	4334.2
30°	4664.8	4628.3	4642.0	4724.1	4792.5	4851.7	4742.3	4635.2	4539.4	4471.0	4459.6
32.5°	4881.4	4844.9	4885.9	4965.7	5102.5	5191.5	5084.3	4897.3	4785.6	4685.3	4705.8
35°	5056.9	5084.3	5150.4	5271.3	5412.6	5556.3	5385.3	5241.6	5082.0	4970.3	4986.3
37.5°	5339.7	5424.0	5476.5	5615.5	5816.2	5964.4	5786.5	5599.6	5428.6	5282.7	5232.5
40°	5709.0	5766.0	5825.3	5989.4	6226.6	6374.8	6206.0	5962.1	5793.4	5642.9	5636.1
42.5°	6114.8	6169.6	6231.1	6431.8	6573.1	6684.8	6529.8	6399.8	6212.9	6094.3	6087.5
45°	6586.8	6548.0	6616.4	6748.7	6867.2	6940.2	6839.9	6776.0	6641.5	6532.1	6520.7
47.5°	6901.4	6867.2	6990.3	7108.9	7127.1	7047.3	7067.9	7127.1	6985.8	6805.7	6862.7
50°	7083.8	7083.8	7165.9	7275.3	7241.1	7138.5	7300.4	7305.0	7163.6	7004.0	7004.0
52.5°	6766.9	6837.6	7070.1	7428.1	7542.1	7571.7	7535.3	7380.2	7010.9	6684.8	6668.9
55°	5896.0	5880.0	6194.6	7015.4	7678.9	8030.0	7564.9	6851.3	6101.2	5734.1	5697.6
57.5°	3834.9	3853.1	4322.8	5159.5	6356.5	7010.9	6226.6	5223.4	4322.8	3816.6	3864.5
60°	1725.9	1787.5	2072.5	2697.2	3725.5	4259.0	3734.6	2834.0	2175.1	1887.8	1912.9
62.5°	991.8	1003.2	1014.6	1203.8	1586.9	1876.4	1648.4	1272.2	1121.7	1071.6	1071.6
65°	836.7	829.9	832.2	848.1	889.2	948.5	923.4	889.2	893.7	889.2	882.3
67.5°	711.3	720.5	713.6	725.0	727.3	736.4	752.4	766.1	768.3	772.9	768.3
70°	583.7	585.9	590.5	599.6	601.9	608.7	631.5	642.9	649.8	649.8	658.9
72.5°	446.9	444.6	449.2	458.3	469.7	472.0	492.5	508.4	517.6	506.2	508.4
75°	294.1	296.4	303.2	310.1	326.0	342.0	348.8	364.8	367.1	371.6	360.2
77.5°	175.6	180.1	187.0	200.6	214.3	228.0	244.0	255.4	259.9	255.4	241.7
80°	114.0	114.0	123.1	134.5	150.5	161.9	171.0	180.1	187.0	180.1	175.6
82.5°	70.7	70.7	82.1	95.8	107.2	114.0	127.7	139.1	145.9	141.4	134.5
85°	36.5	38.8	47.9	59.3	68.4	73.0	70.7	63.8	57.0	54.7	50.2
87.5°	11.4	11.4	13.7	13.7	11.4	11.4	13.7	11.4	13.7	13.7	13.7
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)