

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: P650829

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650829
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-SA4C-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA 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: 20644.9 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

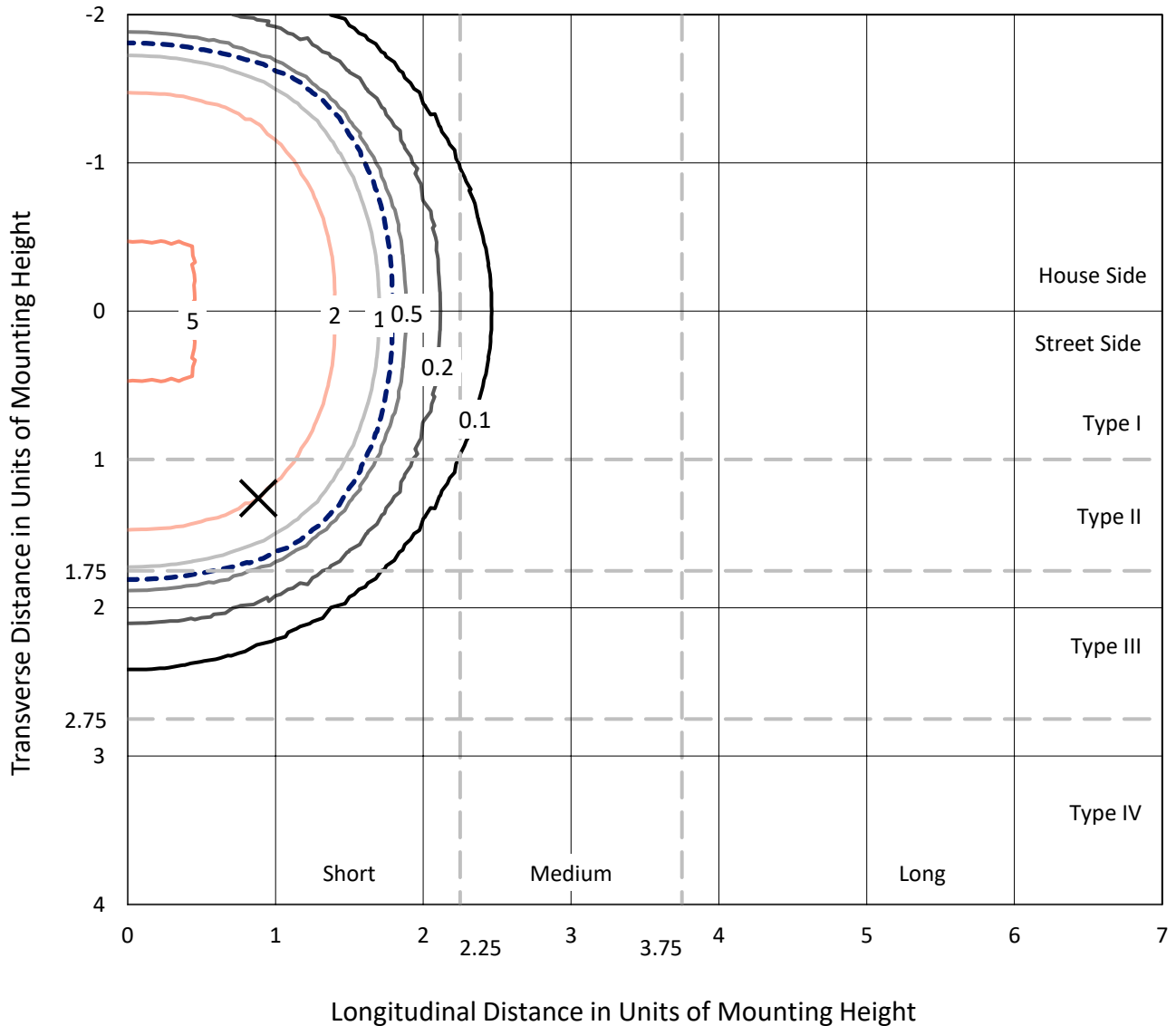
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

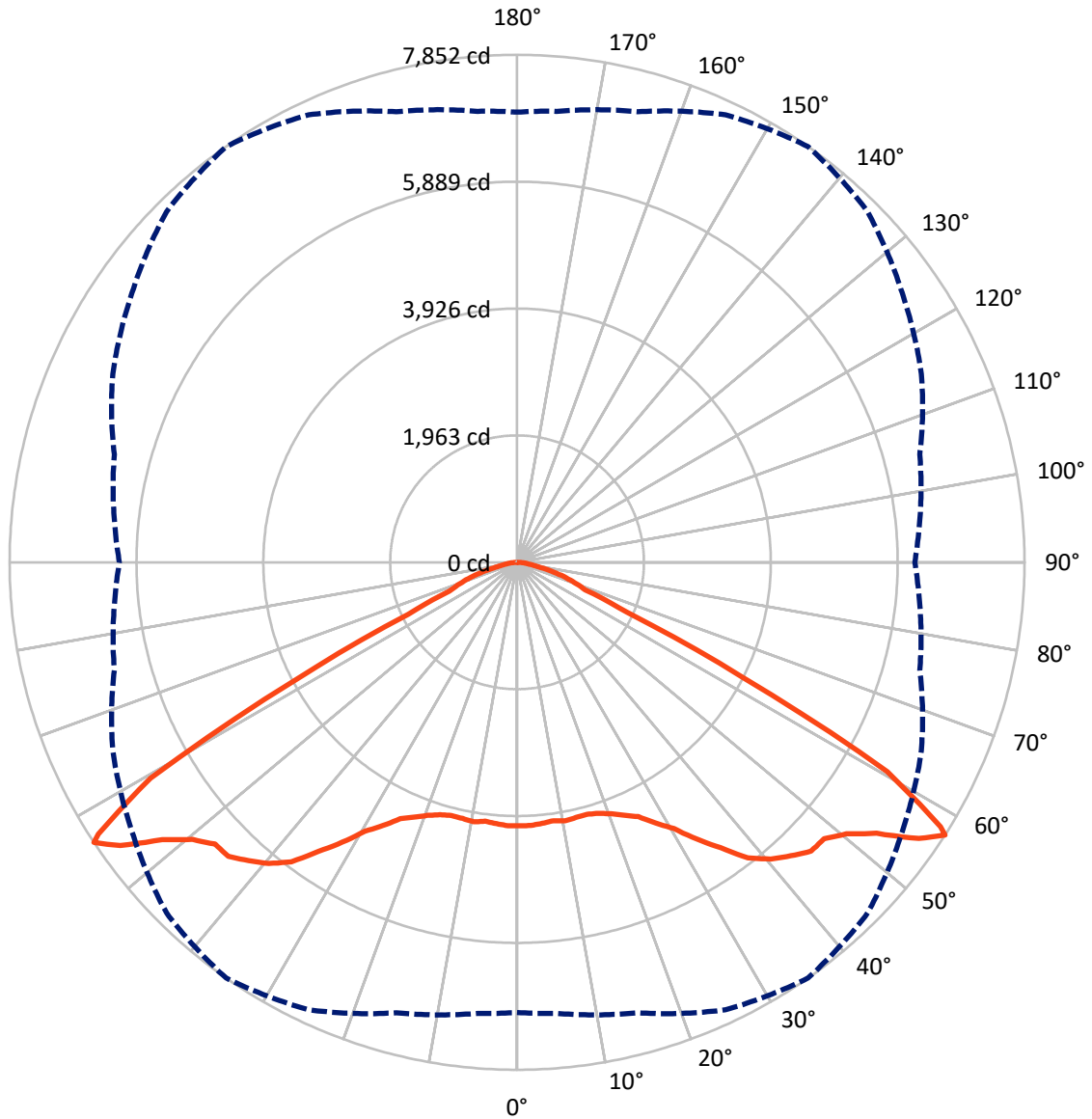
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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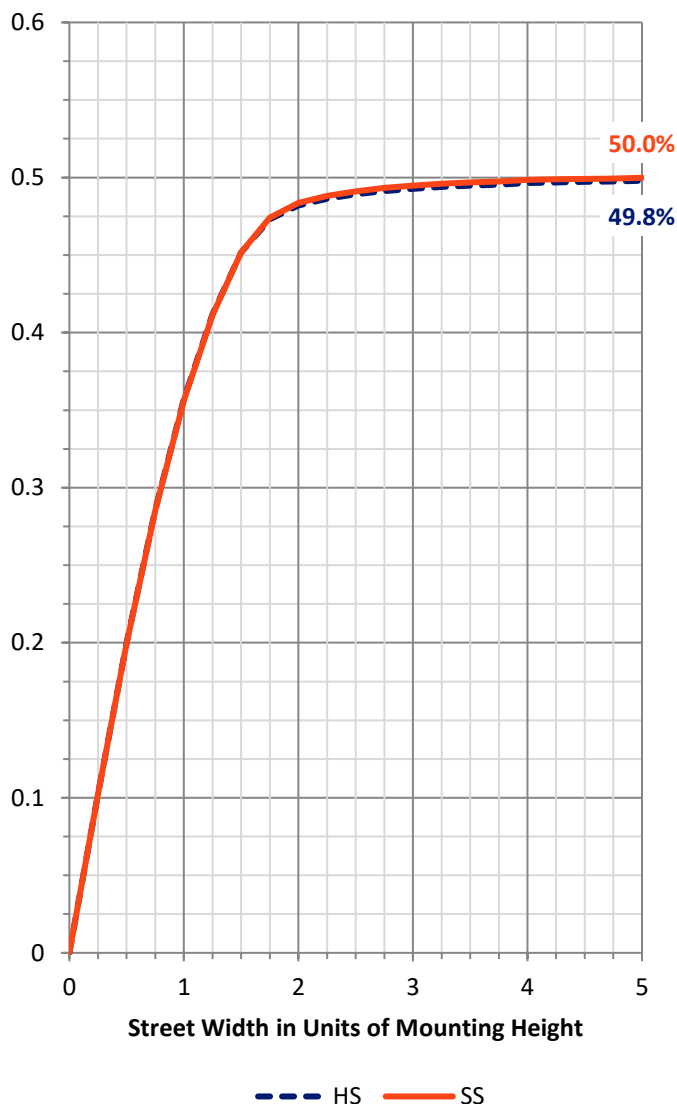
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10322.4	0.0	10322.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10322.4	0.0	10322.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	20644.9	0.0	20644.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.5	1.9
10°-20°	1144.8	5.5
20°-30°	1999.4	9.7
30°-40°	3276.0	15.9
40°-50°	4803.5	23.3
50°-60°	6050.4	29.3
60°-70°	2275.5	11.0
70°-80°	605.0	2.9
80°-90°	103.7	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°	20644.9	100.0
0°-180°	20644.9	100.0

Coefficient of Utilization



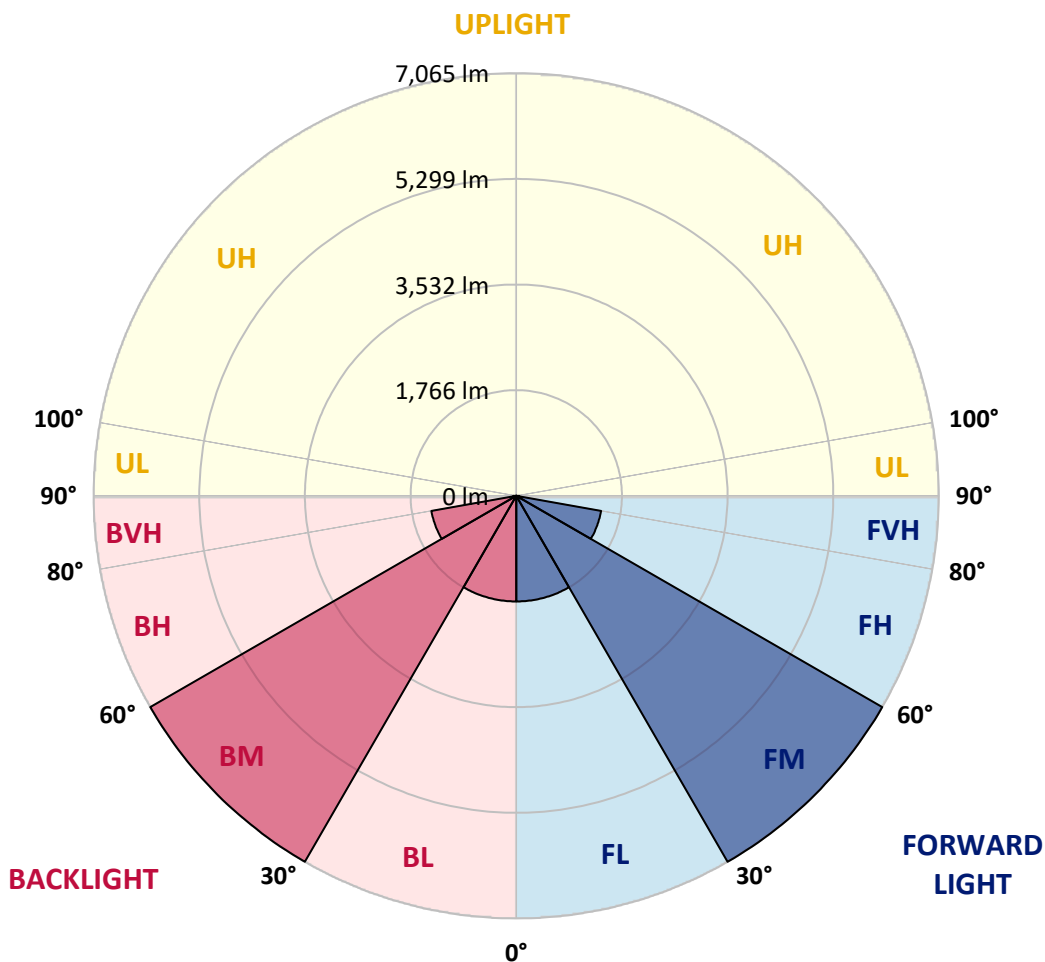
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1765.4	8.6			
FM (30°-60°)	7064.9	34.2			
FH (60°-80°)	1440.3	7.0			G1/1800
FVH (80°-90°)	51.9	0.3			G1/100
BL (0°-30°)	1765.4	8.6	B3/2500		
BM (30°-60°)	7064.9	34.2	B4/8500		
BH (60°-80°)	1440.3	7.0	B3/2500		G1/1800
BVH (80°-90°)	51.9	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°	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2	4077.2
2.5°	4056.9	4097.5	4079.8	4069.6	4077.2	4064.5	4044.1	4067.1	4061.9	4041.6	4033.9
5°	4046.7	4077.2	4056.9	4077.2	4056.9	4092.5	4082.3	4044.1	4090.0	4046.7	4061.9
7.5°	4039.1	4049.2	4054.3	4044.1	4036.5	4079.8	4056.9	4039.1	4013.6	4006.0	4018.7
10°	4021.2	4046.7	4008.5	4059.4	4069.6	4039.1	4039.1	4006.0	3985.7	3973.0	4016.2
12.5°	4067.1	4023.8	4018.7	4044.1	4051.8	4064.5	4028.9	4011.1	3973.0	3978.0	3970.4
15°	4013.6	4031.4	4033.9	4039.1	4046.7	4077.2	4044.1	4006.0	3990.7	3937.3	3942.4
17.5°	4033.9	4016.2	4033.9	4092.5	4082.3	4105.2	4069.6	4011.1	3975.5	3945.0	3985.7
20°	4069.6	4061.9	4069.6	4140.8	4153.5	4173.9	4143.4	4090.0	4021.2	3985.7	4006.0
22.5°	4107.7	4102.7	4107.7	4176.4	4250.2	4275.6	4245.1	4120.5	4084.8	4018.7	3995.8
25°	4176.4	4181.5	4234.9	4311.2	4359.6	4407.8	4351.9	4262.9	4148.4	4107.7	4059.4
27.5°	4329.0	4341.7	4372.3	4484.1	4568.1	4611.4	4532.5	4410.4	4339.2	4255.3	4242.5
30°	4517.3	4517.3	4570.7	4667.3	4781.8	4847.9	4751.2	4606.2	4519.8	4474.0	4446.0
32.5°	4766.5	4738.5	4758.9	4929.3	5107.3	5163.3	5033.6	4855.5	4718.2	4657.1	4636.8
35°	4980.1	4998.0	5043.7	5226.9	5425.3	5555.0	5351.5	5120.0	4980.1	4924.2	4914.0
37.5°	5257.4	5287.9	5310.8	5562.6	5801.7	5850.0	5654.2	5468.5	5298.0	5252.3	5226.9
40°	5649.1	5628.7	5636.4	5822.1	6038.2	6068.7	5875.5	5743.2	5603.3	5575.3	5575.3
42.5°	5972.1	5949.2	5974.6	6043.3	6208.7	6185.7	6078.9	5982.3	5923.8	5893.2	5923.8
45°	6168.0	6162.8	6208.7	6259.6	6376.5	6300.2	6216.3	6231.6	6175.5	6124.8	6122.1
47.5°	6381.6	6348.5	6404.5	6480.8	6391.8	6356.2	6351.1	6384.1	6366.4	6277.3	6249.4
50°	6485.9	6473.2	6562.2	6651.2	6602.9	6521.5	6539.3	6592.7	6363.8	6244.3	6175.5
52.5°	6765.7	6768.2	6938.7	6986.9	6966.6	6847.1	6885.2	6740.3	6470.7	6302.8	6310.4
55°	7205.7	7187.9	7378.7	7521.1	7544.0	7391.4	7208.2	7004.8	6666.4	6496.1	6445.2
57°	6964.1	7004.8	7215.9	7638.1	7851.7	7671.2	7271.8	6900.5	6450.3	6244.3	6152.7
57.5°	6641.0	6707.1	7073.4	7498.2	7722.1	7706.8	7193.0	6707.1	6305.3	5984.8	5992.5
60°	4865.7	4878.4	5209.1	5883.0	6582.5	6597.8	5972.1	5328.6	4880.9	4532.5	4580.8
62.5°	2566.4	2624.8	2757.1	3298.9	3904.3	4051.8	3672.8	3342.1	2955.5	2691.0	2716.4
65°	1358.2	1350.6	1414.1	1566.8	1864.4	1940.7	1889.8	1627.8	1493.0	1449.8	1452.3
67.5°	1103.9	1116.6	1108.9	1116.6	1136.9	1170.0	1162.3	1172.5	1180.2	1192.9	1190.4
70°	936.0	936.0	941.1	943.6	943.6	958.9	976.7	1009.8	1012.3	1025.0	1030.1
72.5°	737.6	732.5	740.2	758.0	760.5	773.2	798.6	819.0	826.6	826.6	811.4
75°	501.1	506.1	516.3	531.6	546.8	569.8	590.1	602.8	607.9	600.2	592.7
77.5°	282.3	287.5	295.0	317.9	335.7	356.1	379.0	391.7	404.4	407.0	391.7
80°	167.9	167.9	180.6	198.4	218.7	239.1	259.4	274.7	279.8	279.8	272.1
82.5°	101.8	104.3	114.5	132.3	150.0	162.8	180.6	193.3	203.4	200.9	195.9
85°	53.4	53.4	63.6	78.9	91.6	104.3	104.3	96.6	91.6	78.9	73.8
87.5°	17.8	15.2	20.4	20.4	17.8	20.4	20.4	22.9	22.9	22.9	22.9
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)