

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: P650884

Luminaire Tested: **GALN-SA5C-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650884
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-SA5C-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 26134.9 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

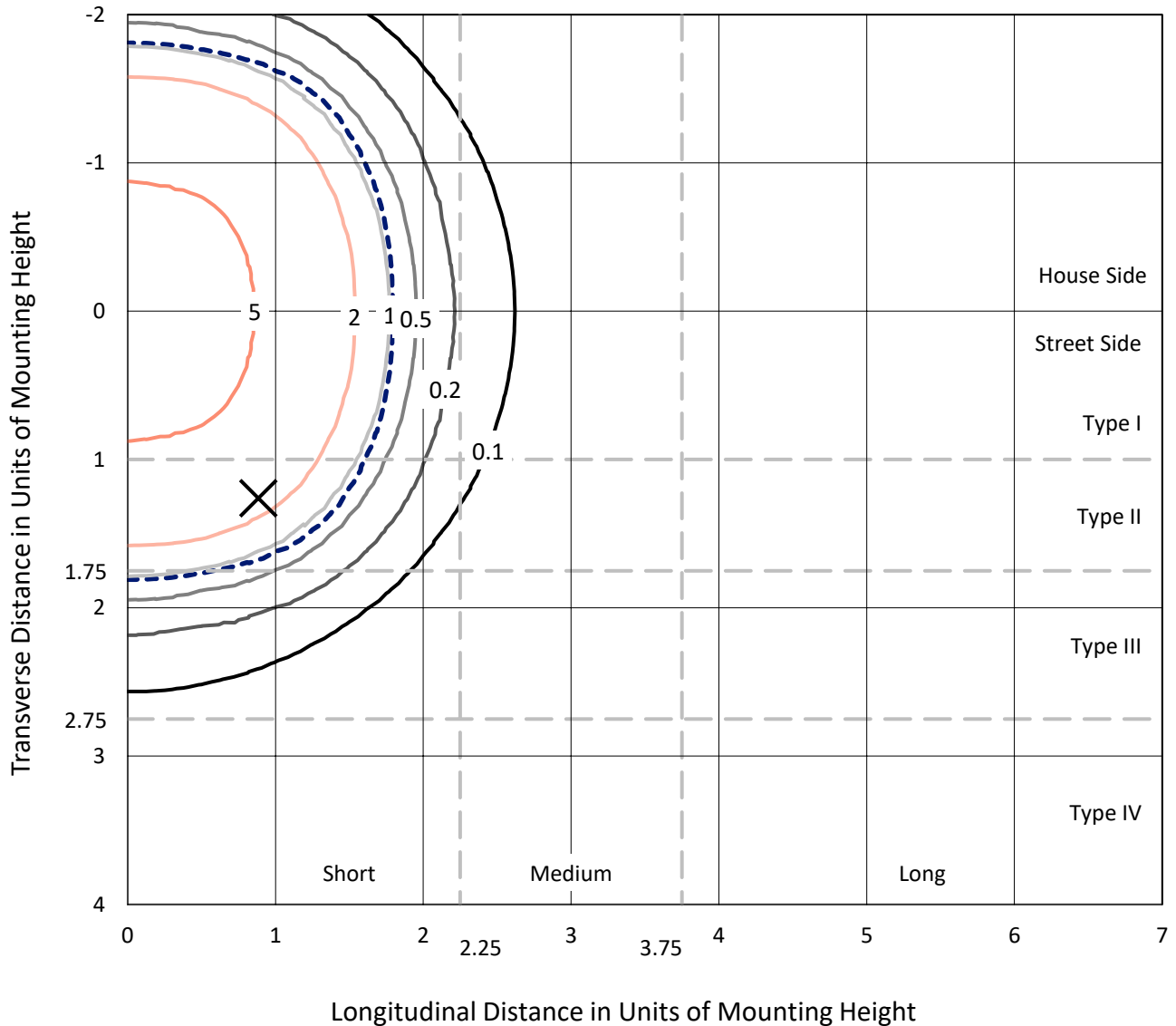
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

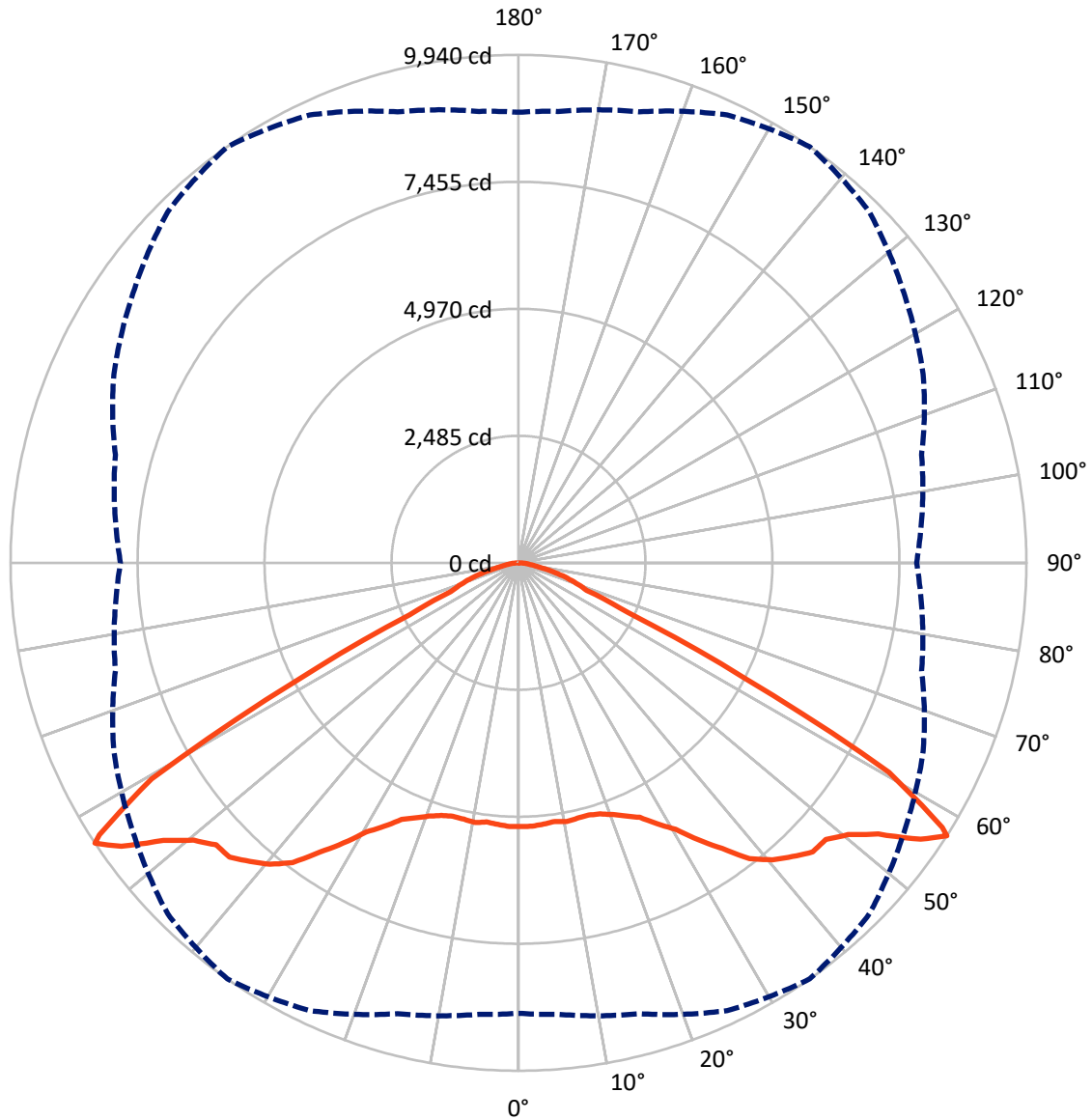
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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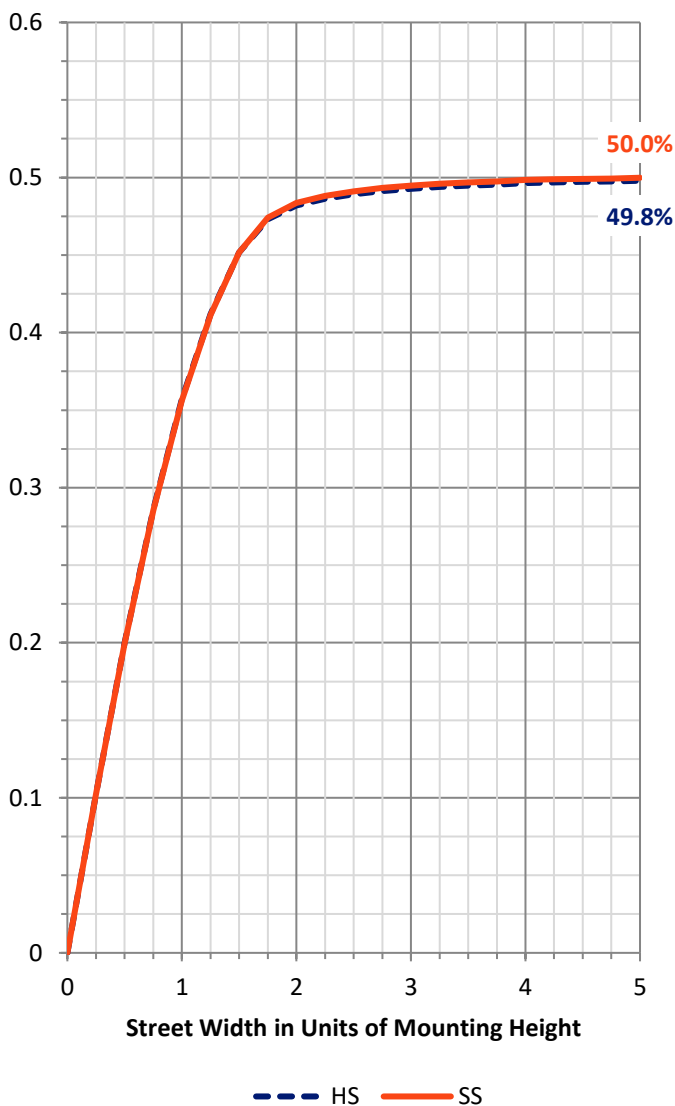
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13067.5	0.0	13067.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13067.5	0.0	13067.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26134.9	0.0	26134.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	489.3	1.9
10°-20°	1449.2	5.5
20°-30°	2531.1	9.7
30°-40°	4147.2	15.9
40°-50°	6080.8	23.3
50°-60°	7659.3	29.3
60°-70°	2880.6	11.0
70°-80°	765.9	2.9
80°-90°	131.3	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°	26134.9	100.0
0°-180°	26134.9	100.0

Coefficient of Utilization



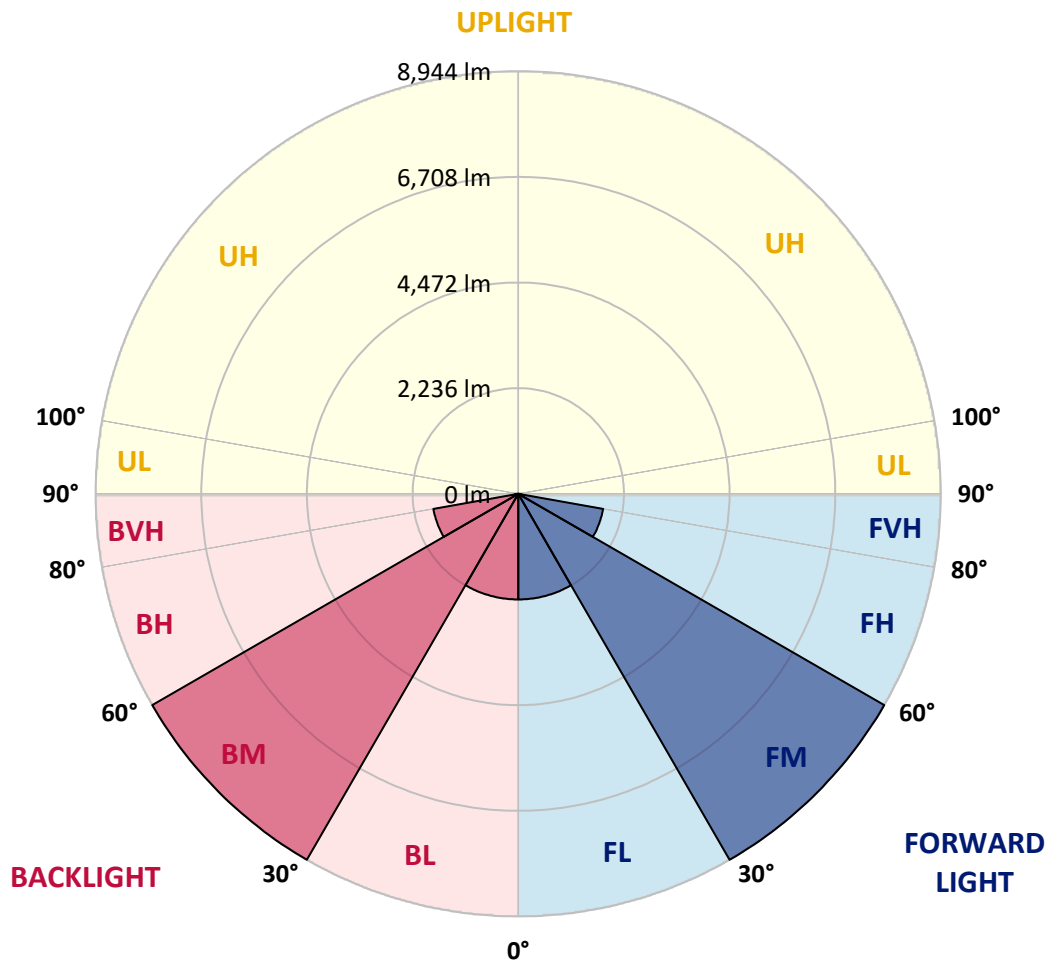
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2234.8	8.6			
FM (30°-60°)	8943.7	34.2			
FH (60°-80°)	1823.3	7.0			G2/5000
FVH (80°-90°)	65.7	0.3			G1/100
BL (0°-30°)	2234.8	8.6	B3/2500		
BM (30°-60°)	8943.7	34.2	B5		
BH (60°-80°)	1823.3	7.0	B3/2500		G2/5000
BVH (80°-90°)	65.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5161.5	5161.5	5161.5	5161.5	5161.5	5161.5	5161.5	5161.5	5161.5	5161.5	5161.5
2.5°	5135.7	5187.2	5164.7	5151.8	5161.5	5145.3	5119.6	5148.6	5142.1	5116.4	5106.7
5°	5122.8	5161.5	5135.7	5161.5	5135.7	5180.8	5167.9	5119.6	5177.5	5122.8	5142.1
7.5°	5113.2	5126.1	5132.5	5119.6	5109.9	5164.7	5135.7	5113.2	5081.0	5071.3	5087.4
10°	5090.7	5122.8	5074.5	5138.9	5151.8	5113.2	5113.2	5071.3	5045.6	5029.4	5084.2
12.5°	5148.6	5093.9	5087.4	5119.6	5129.3	5145.3	5100.2	5077.7	5029.4	5035.9	5026.2
15°	5081.0	5103.5	5106.7	5113.2	5122.8	5161.5	5119.6	5071.3	5052.0	4984.4	4990.8
17.5°	5106.7	5084.2	5106.7	5180.8	5167.9	5196.9	5151.8	5077.7	5032.6	4994.0	5045.6
20°	5151.8	5142.1	5151.8	5242.0	5258.0	5283.8	5245.1	5177.5	5090.7	5045.6	5071.3
22.5°	5200.1	5193.7	5200.1	5287.0	5380.4	5412.6	5374.0	5216.2	5171.1	5087.4	5058.4
25°	5287.0	5293.5	5361.1	5457.7	5518.9	5580.0	5509.2	5396.5	5251.6	5200.1	5138.9
27.5°	5480.2	5496.4	5535.0	5676.7	5782.9	5837.6	5737.8	5583.2	5493.1	5386.9	5370.7
30°	5718.5	5718.5	5786.1	5908.4	6053.3	6137.1	6014.7	5831.2	5721.7	5663.7	5628.3
32.5°	6034.0	5998.6	6024.4	6240.1	6465.5	6536.3	6372.1	6146.7	5972.9	5895.6	5869.8
35°	6304.5	6327.0	6385.0	6616.8	6868.0	7032.2	6774.6	6481.6	6304.5	6233.7	6220.8
37.5°	6655.5	6694.1	6723.1	7041.9	7344.5	7405.7	7157.8	6922.7	6707.0	6649.0	6616.8
40°	7151.4	7125.5	7135.2	7370.3	7643.9	7682.6	7437.9	7270.4	7093.4	7057.9	7057.9
42.5°	7560.3	7531.2	7563.4	7650.4	7859.7	7830.7	7695.5	7573.1	7499.1	7460.4	7499.1
45°	7808.2	7801.8	7859.7	7924.1	8072.3	7975.6	7869.4	7888.7	7817.9	7753.4	7750.2
47.5°	8078.6	8036.8	8107.7	8204.2	8091.5	8046.4	8040.0	8081.8	8059.3	7946.6	7911.2
50°	8210.7	8194.5	8307.2	8419.9	8358.8	8255.8	8278.3	8345.9	8056.1	7904.8	7817.9
52.5°	8564.8	8568.1	8783.8	8845.0	8819.2	8667.9	8716.2	8532.6	8191.3	7978.8	7988.5
55°	9121.9	9099.4	9340.8	9521.1	9550.1	9357.0	9125.1	8867.5	8439.3	8223.6	8159.1
57°	8816.0	8867.5	9134.8	9669.3	9939.8	9711.1	9205.6	8735.6	8165.6	7904.8	7788.8
57.5°	8407.1	8490.8	8954.5	9492.2	9775.5	9756.2	9105.8	8490.8	7982.1	7576.3	7586.0
60°	6159.7	6175.7	6594.3	7447.6	8333.0	8352.3	7560.3	6745.7	6178.9	5737.8	5798.9
62.5°	3248.9	3322.9	3490.3	4176.2	4942.5	5129.3	4649.5	4230.9	3741.5	3406.6	3438.8
65°	1719.4	1709.8	1790.2	1983.4	2360.2	2456.7	2392.4	2060.7	1890.1	1835.3	1838.5
67.5°	1397.4	1413.6	1403.9	1413.6	1439.3	1481.2	1471.5	1484.4	1494.0	1510.1	1506.9
70°	1184.9	1184.9	1191.4	1194.6	1194.6	1213.9	1236.4	1278.3	1281.5	1297.6	1304.1
72.5°	933.8	927.3	937.0	959.5	962.8	978.8	1011.1	1036.8	1046.5	1046.5	1027.1
75°	634.3	640.8	653.6	673.0	692.3	721.2	747.0	763.1	769.5	759.9	750.3
77.5°	357.4	363.8	373.5	402.5	425.0	450.8	479.8	495.9	512.0	515.2	495.9
80°	212.5	212.5	228.6	251.1	276.9	302.7	328.4	347.8	354.1	354.1	344.6
82.5°	128.8	132.0	144.9	167.4	190.0	206.0	228.6	244.7	257.6	254.4	247.9
85°	67.6	67.6	80.5	99.8	115.9	132.0	132.0	122.4	115.9	99.8	93.4
87.5°	22.5	19.3	25.7	25.7	22.5	25.7	25.7	29.0	29.0	29.0	29.0
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)