

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: P651599

Luminaire Tested: **GALN-SA9D-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651599
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-SA9D-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA 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: 52058.7 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

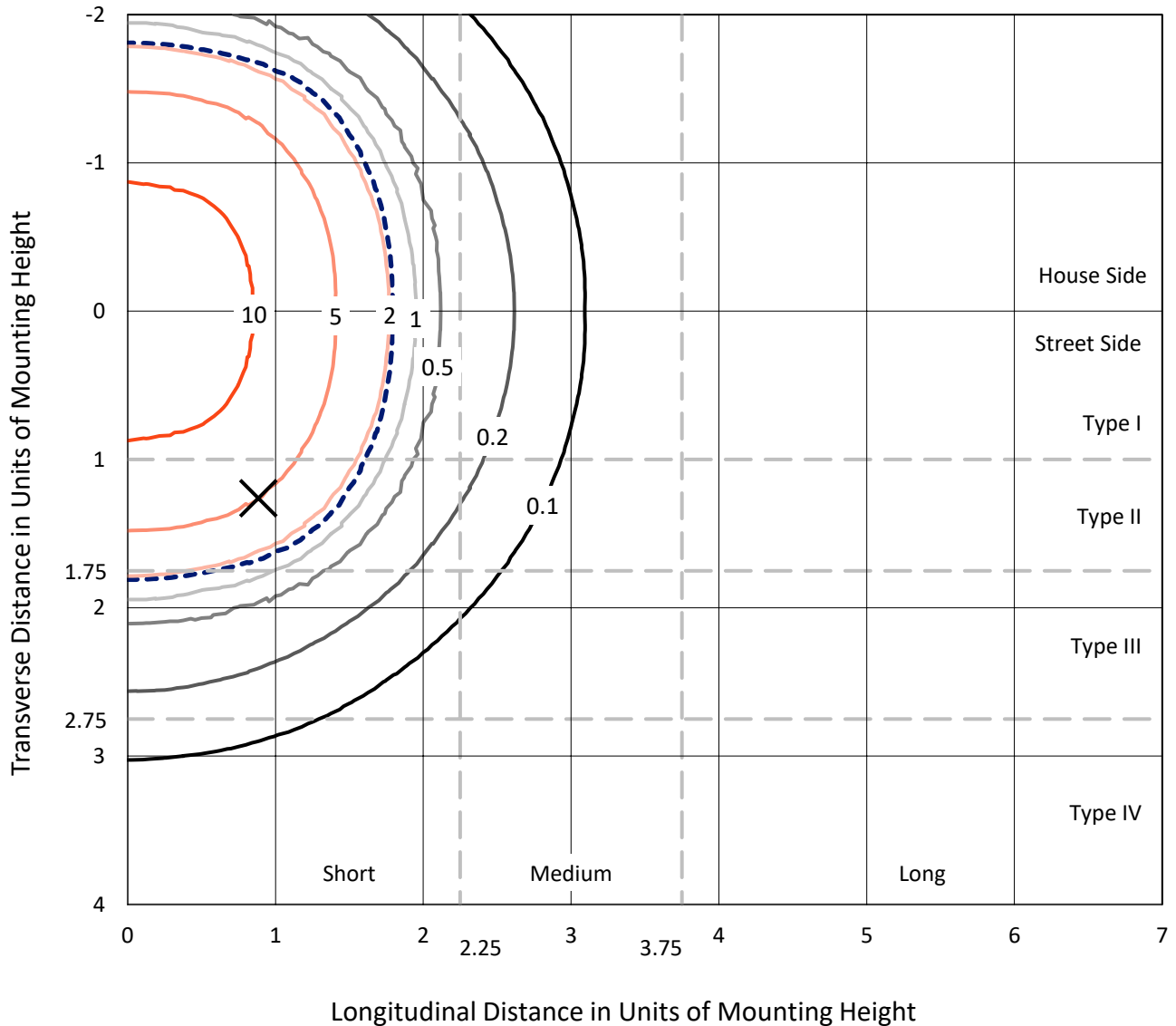
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

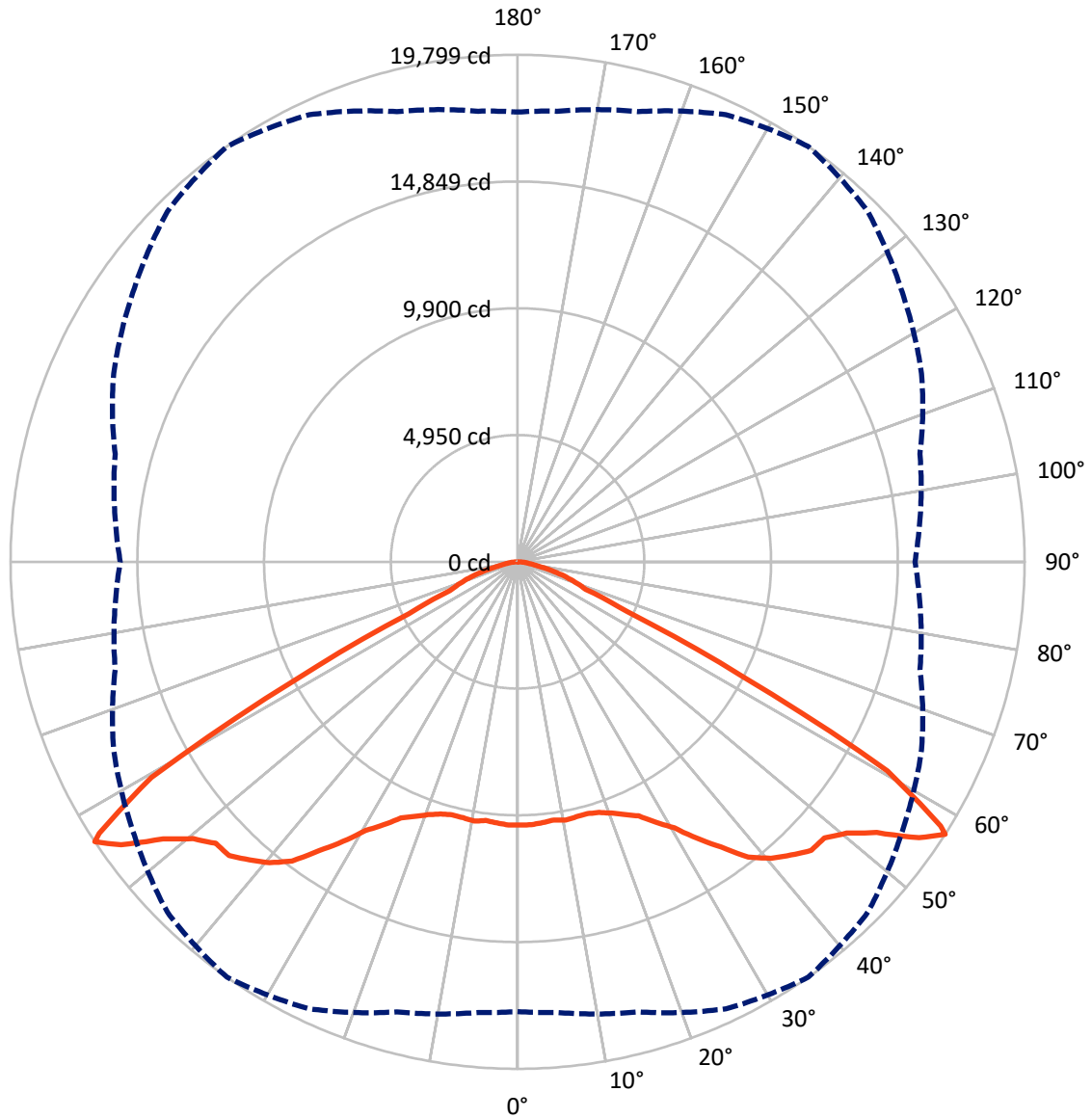
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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	26029.4	0.0	26029.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26029.4	0.0	26029.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	52058.7	0.0	52058.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	974.7	1.9
10°-20°	2886.8	5.5
20°-30°	5041.7	9.7
30°-40°	8261.0	15.9
40°-50°	12112.6	23.3
50°-60°	15256.8	29.3
60°-70°	5737.9	11.0
70°-80°	1525.7	2.9
80°-90°	261.6	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°	52058.7	100.0
0°-180°	52058.7	100.0

Coefficient of Utilization



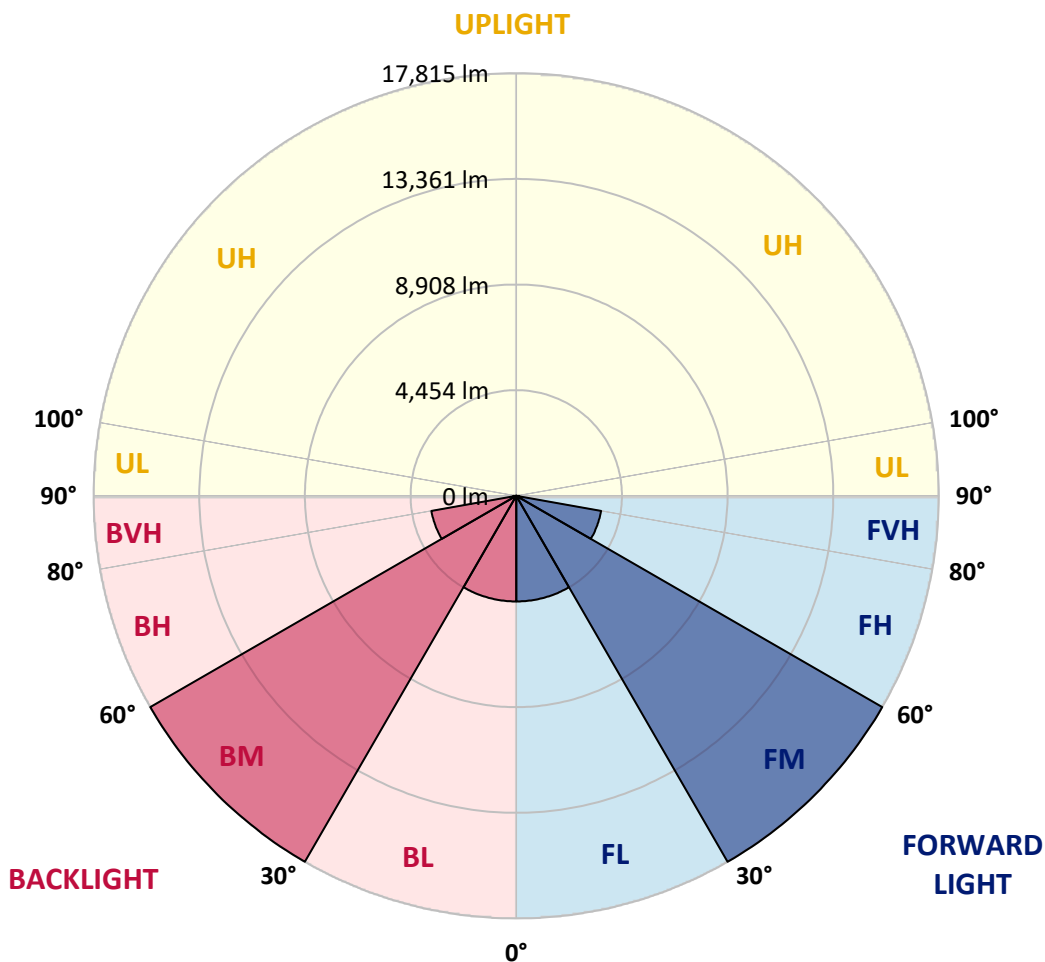
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4451.6	8.6			
FM (30°-60°)	17815.2	34.2			
FH (60°-80°)	3631.8	7.0			G2/5000
FVH (80°-90°)	130.8	0.3			G2/225
BL (0°-30°)	4451.6	8.6	B4/5000		
BM (30°-60°)	17815.2	34.2	B5		
BH (60°-80°)	3631.8	7.0	B4/5000		G2/5000
BVH (80°-90°)	130.8	0.3			G2/225
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°	10281.2	10281.2	10281.2	10281.2	10281.2	10281.2	10281.2	10281.2	10281.2	10281.2	10281.2
2.5°	10229.9	10332.5	10287.6	10262.0	10281.2	10249.2	10197.8	10255.6	10242.7	10191.4	10172.1
5°	10204.3	10281.2	10229.9	10281.2	10229.9	10319.7	10294.0	10197.8	10313.3	10204.3	10242.7
7.5°	10185.0	10210.7	10223.5	10197.8	10178.6	10287.6	10229.9	10185.0	10120.8	10101.7	10133.7
10°	10140.1	10204.3	10108.1	10236.3	10262.0	10185.0	10185.0	10101.7	10050.3	10018.2	10127.3
12.5°	10255.6	10146.5	10133.7	10197.8	10217.1	10249.2	10159.4	10114.5	10018.2	10031.1	10011.9
15°	10120.8	10165.8	10172.1	10185.0	10204.3	10281.2	10197.8	10101.7	10063.2	9928.4	9941.3
17.5°	10172.1	10127.3	10172.1	10319.7	10294.0	10351.8	10262.0	10114.5	10024.6	9947.7	10050.3
20°	10262.0	10242.7	10262.0	10441.5	10473.6	10524.9	10448.0	10313.3	10140.1	10050.3	10101.7
22.5°	10358.2	10345.4	10358.2	10531.3	10717.4	10781.5	10704.5	10390.2	10300.5	10133.7	10075.9
25°	10531.3	10544.2	10678.8	10871.3	10993.1	11115.0	10973.9	10749.4	10460.8	10358.2	10236.3
27.5°	10916.2	10948.2	11025.2	11307.4	11519.1	11628.1	11429.3	11121.4	10941.8	10730.2	10698.1
30°	11390.8	11390.8	11525.5	11769.2	12057.8	12224.6	11980.9	11615.3	11397.2	11281.8	11211.2
32.5°	12019.3	11948.8	12000.1	12429.8	12878.8	13019.9	12692.8	12243.8	11897.5	11743.6	11692.3
35°	12558.1	12603.0	12718.4	13180.2	13680.5	14007.6	13494.5	12910.9	12558.1	12417.0	12391.4
37.5°	13257.2	13334.1	13391.9	14026.9	14629.7	14751.6	14257.7	13789.5	13359.8	13244.4	13180.2
40°	14244.9	14193.6	14212.8	14681.0	15226.2	15303.2	14815.7	14482.2	14129.5	14058.9	14058.9
42.5°	15059.5	15001.8	15065.8	15239.0	15655.9	15598.2	15328.8	15085.1	14937.6	14860.6	14937.6
45°	15553.3	15540.5	15655.9	15784.2	16079.2	15886.8	15675.1	15713.7	15572.5	15444.3	15437.9
47.5°	16092.0	16008.7	16149.8	16342.2	16117.7	16027.9	16015.1	16098.5	16053.6	15829.1	15758.6
50°	16355.0	16323.0	16547.4	16771.9	16650.0	16444.8	16489.7	16624.4	16047.2	15745.7	15572.5
52.5°	17060.5	17066.9	17496.7	17618.5	17567.2	17265.8	17361.9	16996.4	16316.6	15893.2	15912.5
55°	18170.1	18125.2	18606.3	18965.4	19023.2	18638.3	18176.5	17663.4	16810.4	16380.7	16252.4
57°	17560.8	17663.4	18195.8	19260.4	19799.2	19343.8	18336.8	17400.5	16265.2	15745.7	15514.9
57.5°	16746.2	16913.0	17836.6	18907.7	19472.1	19433.7	18138.0	16913.0	15899.6	15091.5	15110.8
60°	12269.5	12301.6	13135.3	14835.0	16598.7	16637.3	15059.5	13436.7	12308.0	11429.3	11551.1
62.5°	6471.5	6619.0	6952.5	8318.6	9845.1	10217.1	9261.4	8427.7	7452.8	6785.7	6849.9
65°	3425.0	3405.7	3566.0	3950.8	4701.3	4893.7	4765.4	4104.8	3764.9	3655.8	3662.2
67.5°	2783.5	2815.7	2796.4	2815.7	2867.0	2950.3	2931.1	2956.7	2976.0	3008.0	3001.6
70°	2360.3	2360.3	2373.0	2379.5	2379.5	2418.0	2462.9	2546.2	2552.7	2584.7	2597.6
72.5°	1860.0	1847.2	1866.4	1911.3	1917.7	1949.8	2013.9	2065.2	2084.5	2084.5	2046.0
75°	1263.5	1276.3	1302.0	1340.5	1379.0	1436.7	1488.0	1520.0	1532.9	1513.6	1494.4
77.5°	711.9	724.8	744.0	801.7	846.6	897.9	955.6	987.8	1019.8	1026.2	987.8
80°	423.3	423.3	455.4	500.3	551.6	602.9	654.2	692.6	705.5	705.5	686.3
82.5°	256.6	263.0	288.6	333.5	378.4	410.5	455.4	487.4	513.1	506.7	493.8
85°	134.7	134.7	160.4	198.8	230.9	263.0	263.0	243.7	230.9	198.8	186.0
87.5°	44.9	38.5	51.3	51.3	44.9	51.3	51.3	57.7	57.7	57.7	57.7
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)