

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: P534228

Luminaire Tested: **GALN-SA9D-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534228
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-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 51769 lumens
Efficiency: N/A
Efficacy: 93.8 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

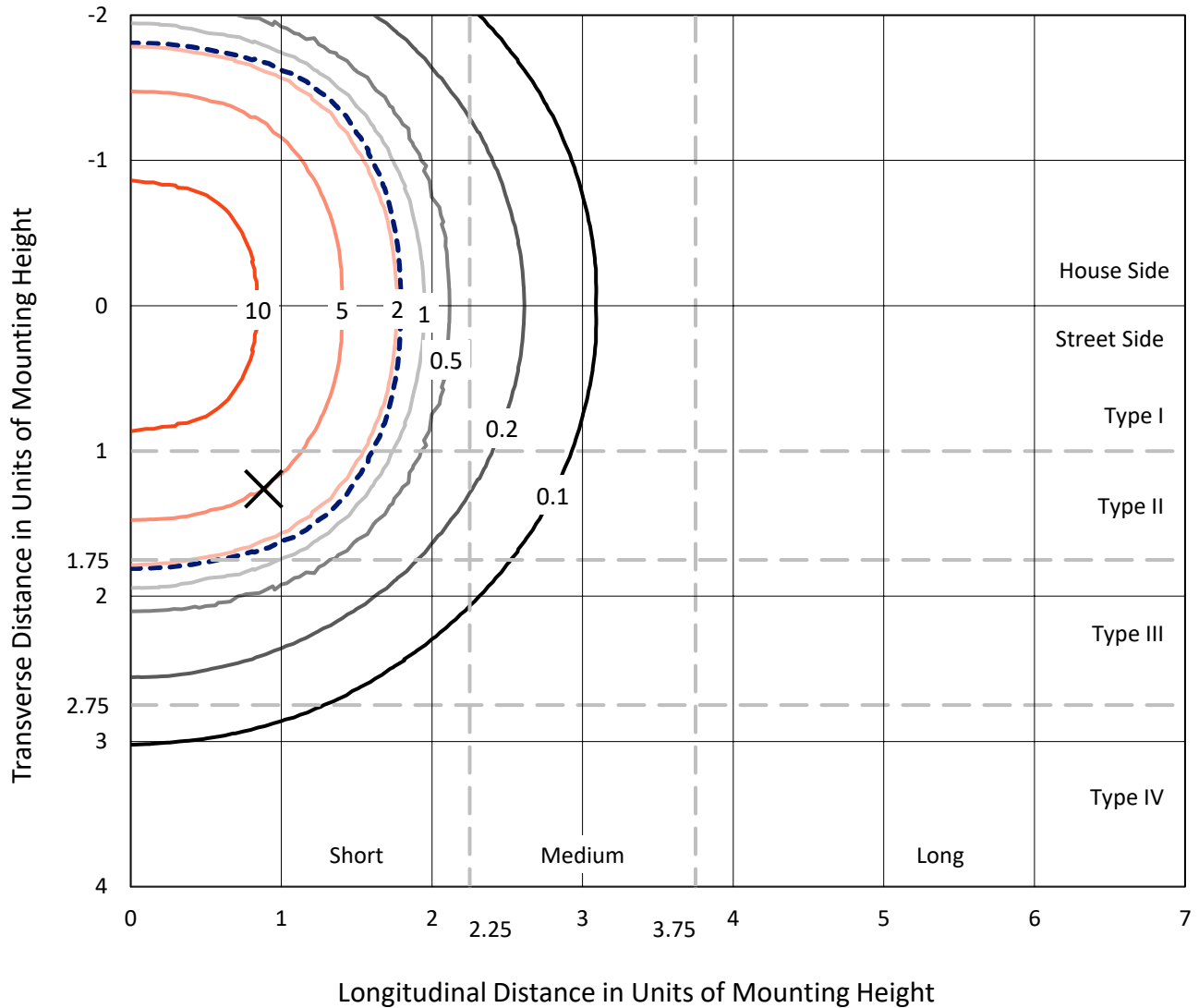
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

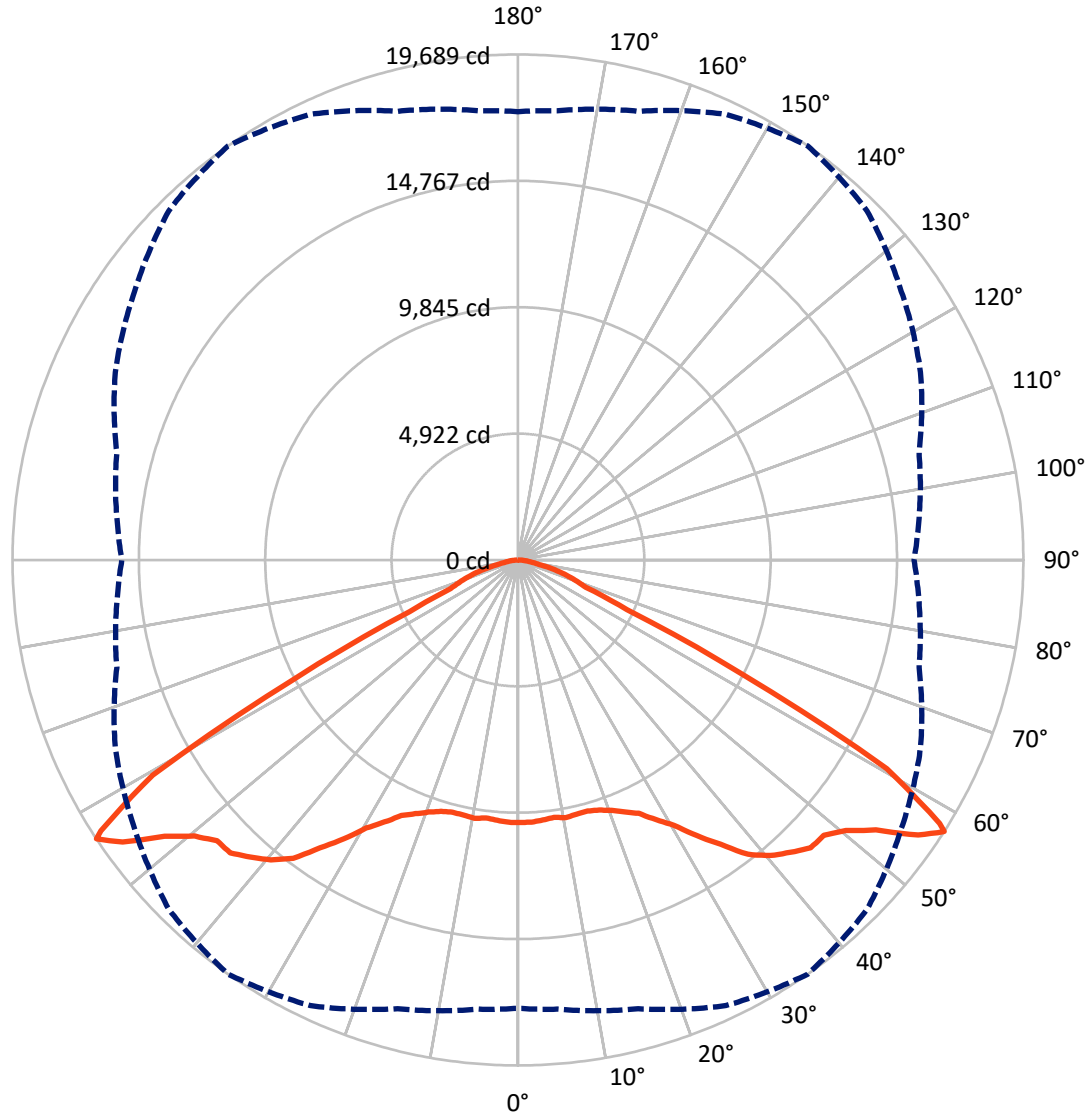
✕ Max cd
 - - - 1/2 Max cd



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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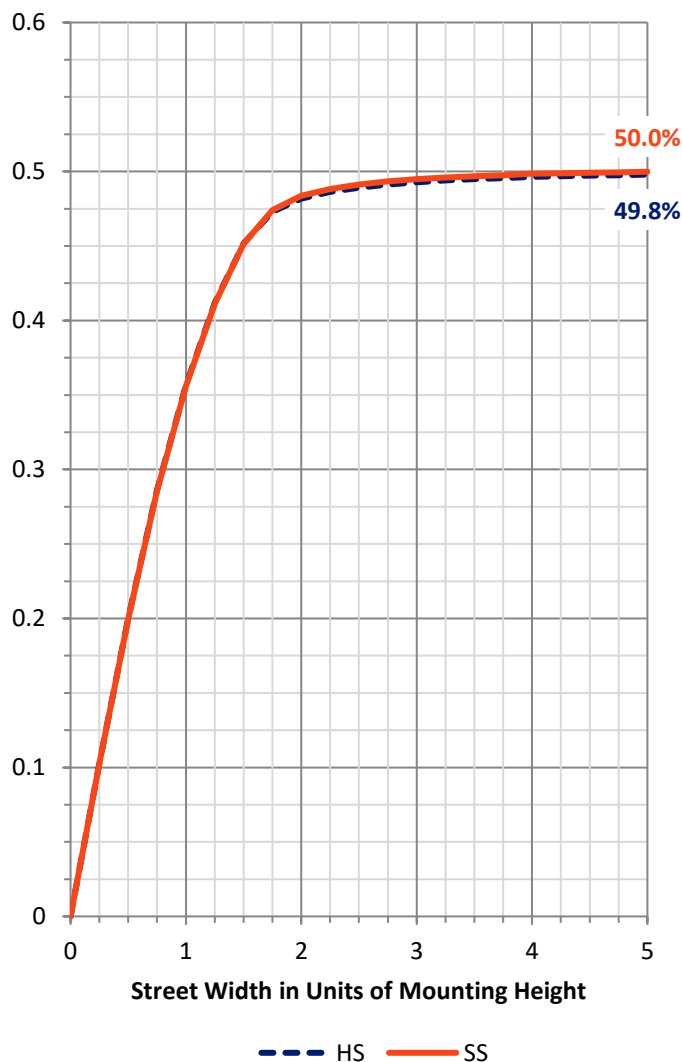
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25884.5	0.0	25884.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25884.5	0.0	25884.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	51769.0	0.0	51769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	969.3	1.9
10°-20°	2870.7	5.5
20°-30°	5013.7	9.7
30°-40°	8215.0	15.9
40°-50°	12045.2	23.3
50°-60°	15171.9	29.3
60°-70°	5706.0	11.0
70°-80°	1517.2	2.9
80°-90°	260.1	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°	51769.0	100.0
0°-180°	51769.0	100.0

Coefficient of Utilization



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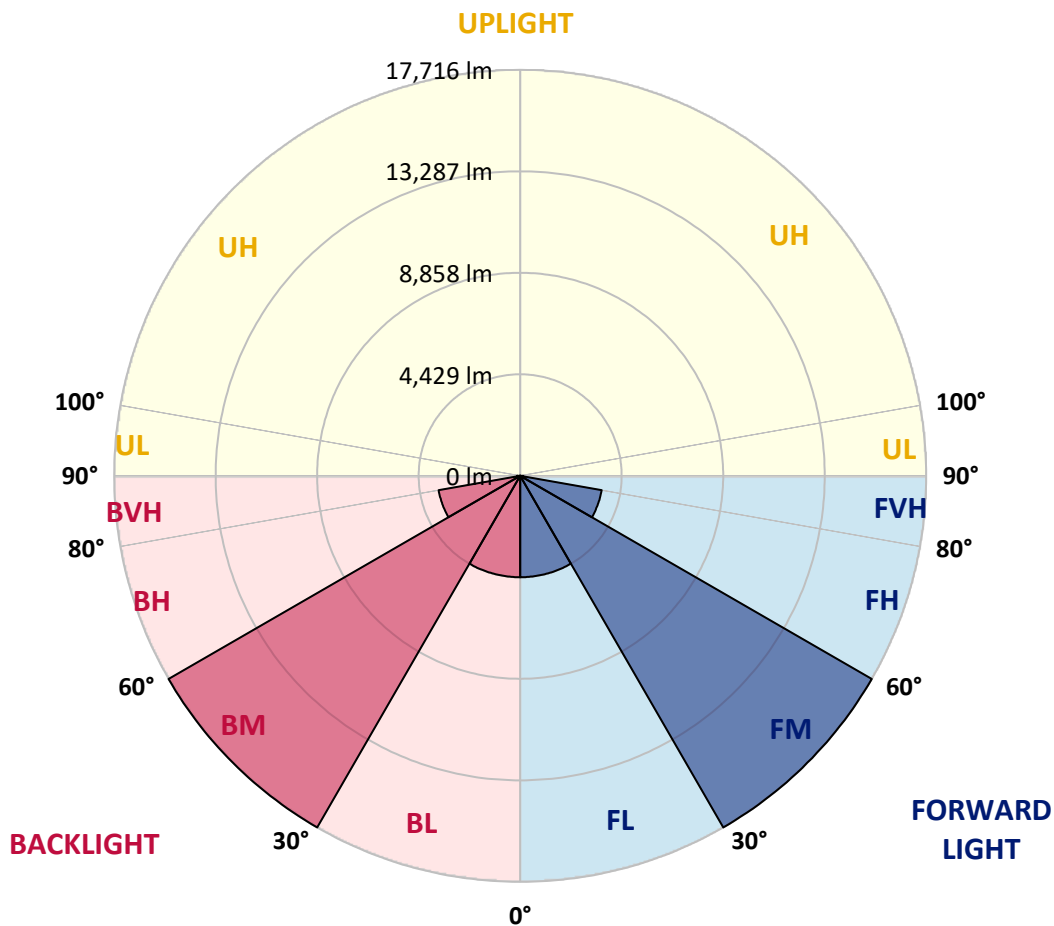
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4426.8	8.6			
FM (30°-60°)	17716.0	34.2			
FH (60°-80°)	3611.6	7.0			G2/5000
FVH (80°-90°)	130.1	0.3			G2/225
BL (0°-30°)	4426.8	8.6	B4/5000		
BM (30°-60°)	17716.0	34.2	B5		
BH (60°-80°)	3611.6	7.0	B4/5000		G2/5000
BVH (80°-90°)	130.1	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°	10224.0	10224.0	10224.0	10224.0	10224.0	10224.0	10224.0	10224.0	10224.0	10224.0	10224.0
2.5°	10173.0	10275.0	10230.4	10204.9	10224.0	10192.1	10141.1	10198.5	10185.7	10134.7	10115.6
5°	10147.5	10224.0	10173.0	10224.0	10173.0	10262.3	10236.8	10141.1	10255.9	10147.5	10185.7
7.5°	10128.3	10153.8	10166.6	10141.1	10121.9	10230.4	10173.0	10128.3	10064.5	10045.4	10077.3
10°	10083.7	10147.5	10051.8	10179.3	10204.9	10128.3	10128.3	10045.4	9994.4	9962.5	10070.9
12.5°	10198.5	10090.1	10077.3	10141.1	10160.2	10192.1	10102.8	10058.2	9962.5	9975.3	9956.1
15°	10064.5	10109.2	10115.6	10128.3	10147.5	10224.0	10141.1	10045.4	10007.1	9873.2	9886.0
17.5°	10115.6	10070.9	10115.6	10262.3	10236.8	10294.2	10204.9	10058.2	9968.9	9892.3	9994.4
20°	10204.9	10185.7	10204.9	10383.4	10415.3	10466.4	10389.8	10255.9	10083.7	9994.4	10045.4
22.5°	10300.5	10287.8	10300.5	10472.7	10657.7	10721.5	10644.9	10332.4	10243.1	10077.3	10019.9
25°	10472.7	10485.5	10619.4	10810.8	10932.0	11053.1	10912.8	10689.6	10402.6	10300.5	10179.3
27.5°	10855.4	10887.3	10963.8	11244.5	11455.0	11563.4	11365.7	11059.5	10880.9	10670.5	10638.6
30°	11327.4	11327.4	11461.3	11703.7	11990.7	12156.5	11914.2	11550.6	11333.8	11219.0	11148.8
32.5°	11952.4	11882.3	11933.3	12360.6	12807.1	12947.4	12622.1	12175.7	11831.3	11678.2	11627.2
35°	12488.2	12532.8	12647.7	13106.9	13604.4	13929.6	13419.4	12839.0	12488.2	12347.9	12322.4
37.5°	13183.4	13259.9	13317.3	13948.8	14548.3	14669.5	14178.4	13712.8	13285.5	13170.6	13106.9
40°	14165.6	14114.6	14133.7	14599.3	15141.5	15218.0	14733.3	14401.6	14050.8	13980.7	13980.7
42.5°	14975.6	14918.2	14982.0	15154.2	15568.8	15511.4	15243.5	15001.1	14854.5	14777.9	14854.5
45°	15466.7	15454.0	15568.8	15696.4	15989.7	15798.4	15587.9	15626.2	15485.9	15358.3	15351.9
47.5°	16002.5	15919.6	16059.9	16251.2	16028.0	15938.7	15926.0	16008.9	15964.2	15741.0	15670.8
50°	16264.0	16232.1	16455.3	16678.6	16557.4	16353.3	16397.9	16531.9	15957.9	15658.1	15485.9
52.5°	16965.6	16972.0	17399.3	17520.5	17469.4	17169.7	17265.4	16901.8	16225.7	15804.8	15823.9
55°	18069.0	18024.3	18502.7	18859.9	18917.3	18534.6	18075.4	17565.1	16716.8	16289.5	16162.0
57°	17463.1	17565.1	18094.5	19153.3	19689.0	19236.2	18234.8	17303.6	16174.7	15658.1	15428.5
57.5°	16653.1	16818.9	17737.3	18802.5	19363.7	19325.5	18037.1	16818.9	15811.2	15007.5	15026.7
60°	12201.2	12233.1	13062.2	14752.4	16506.4	16544.6	14975.6	13362.0	12239.5	11365.7	11486.8
62.5°	6435.4	6582.1	6913.8	8272.3	9790.3	10160.2	9209.9	8380.7	7411.3	6748.0	6811.7
65°	3405.9	3386.7	3546.2	3928.9	4675.1	4866.4	4738.9	4081.9	3743.9	3635.5	3641.9
67.5°	2768.1	2800.0	2780.8	2800.0	2851.0	2933.9	2914.8	2940.3	2959.4	2991.3	2984.9
70°	2347.1	2347.1	2359.9	2366.3	2366.3	2404.5	2449.2	2532.1	2538.5	2570.3	2583.1
72.5°	1849.6	1836.9	1856.0	1900.7	1907.0	1938.9	2002.7	2053.7	2072.9	2072.9	2034.6
75°	1256.5	1269.2	1294.7	1333.0	1371.3	1428.7	1479.7	1511.6	1524.4	1505.2	1486.1
77.5°	708.0	720.7	739.9	797.3	841.9	892.9	950.3	982.2	1014.1	1020.5	982.2
80°	421.0	421.0	452.8	497.5	548.5	599.5	650.6	688.8	701.6	701.6	682.5
82.5°	255.1	261.5	287.0	331.7	376.3	408.2	452.8	484.7	510.2	503.9	491.1
85°	133.9	133.9	159.5	197.7	229.6	261.5	261.5	242.4	229.6	197.7	185.0
87.5°	44.6	38.3	51.0	51.0	44.6	51.0	51.0	57.4	57.4	57.4	57.4
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)