

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: P651598

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
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-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35396.9 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

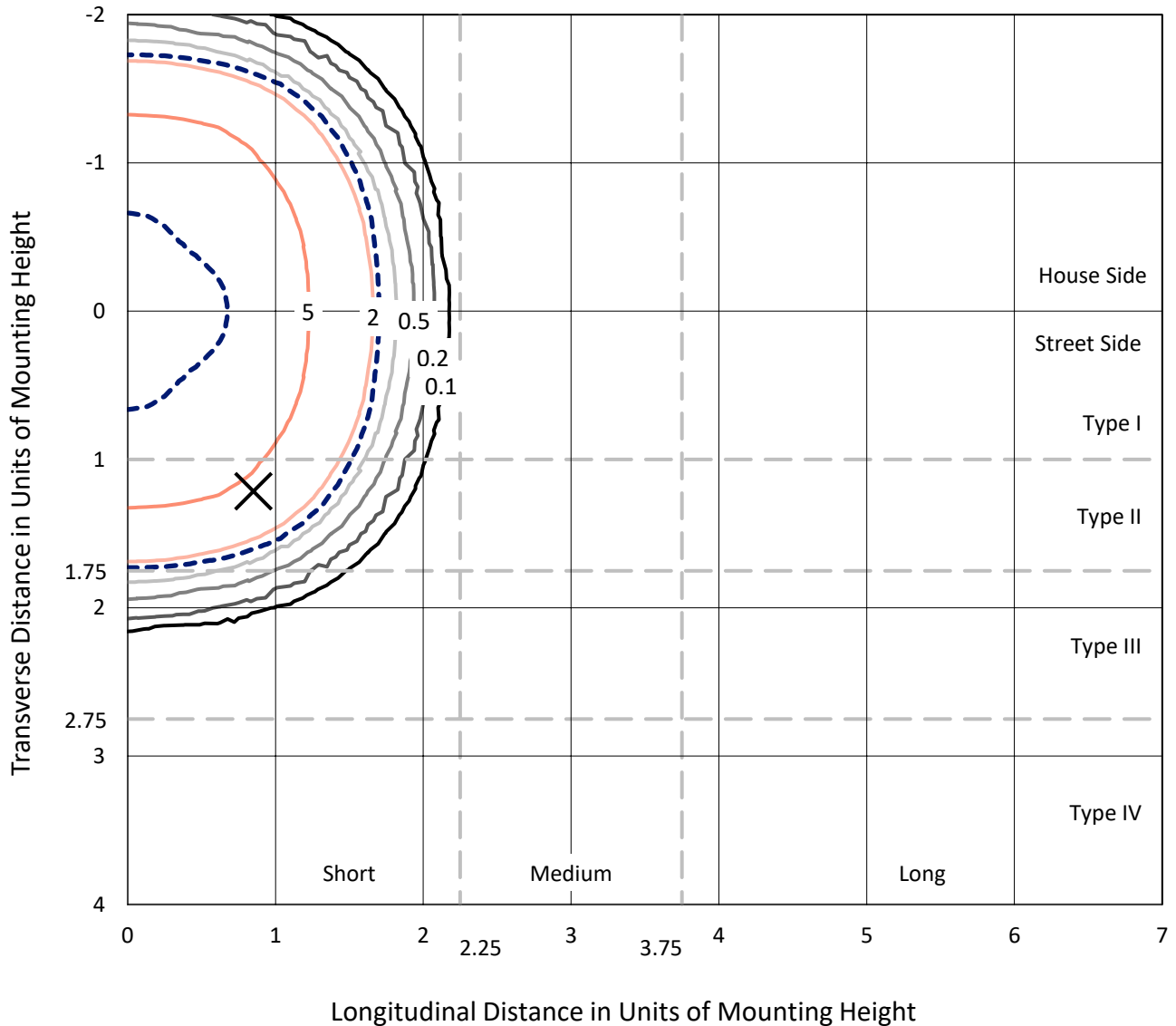
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

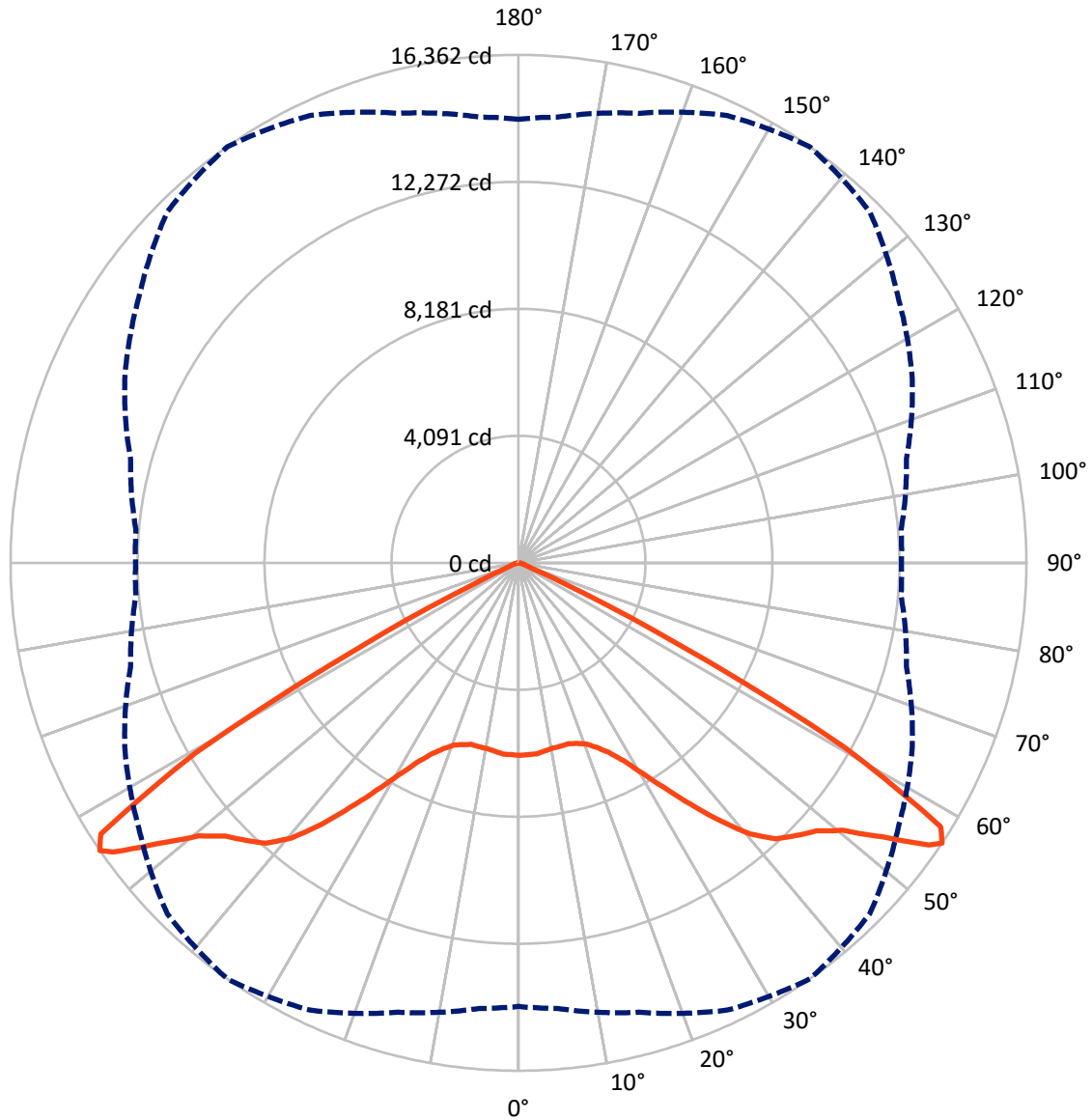
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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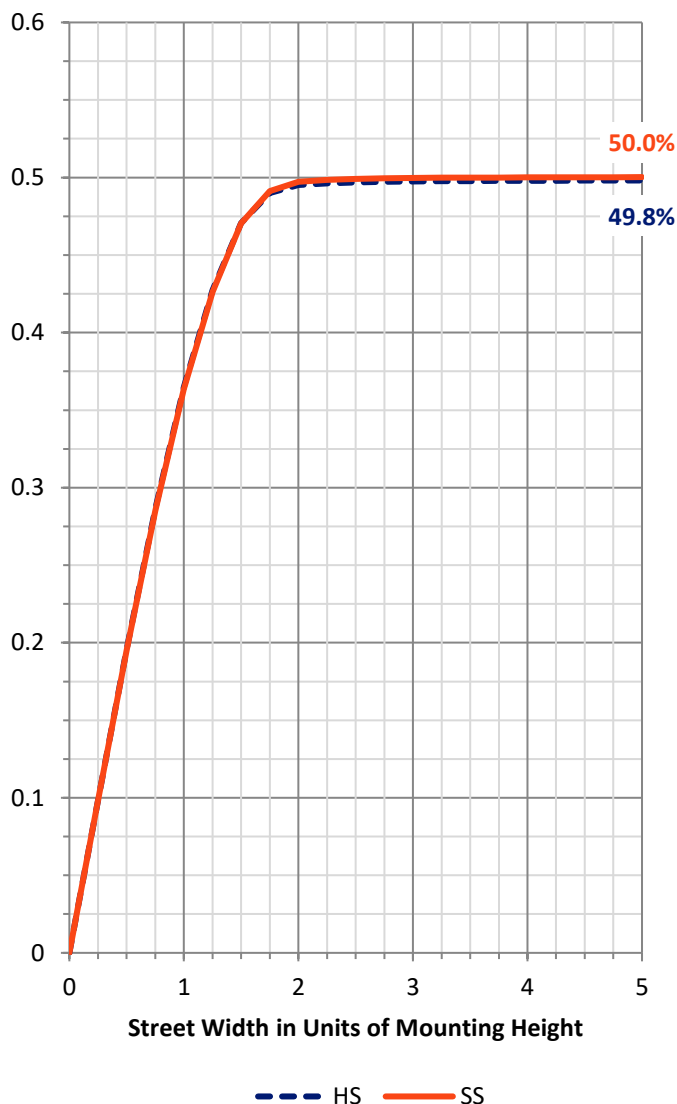
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17698.4	0.0	17698.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17698.4	0.0	17698.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	35396.9	0.0	35396.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.9	1.6
10°-20°	1701.8	4.8
20°-30°	3081.8	8.7
30°-40°	5714.8	16.1
40°-50°	9380.4	26.5
50°-60°	12084.7	34.1
60°-70°	2663.3	7.5
70°-80°	154.5	0.4
80°-90°	32.5	0.1
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°	35396.9	100.0
0°-180°	35396.9	100.0

Coefficient of Utilization

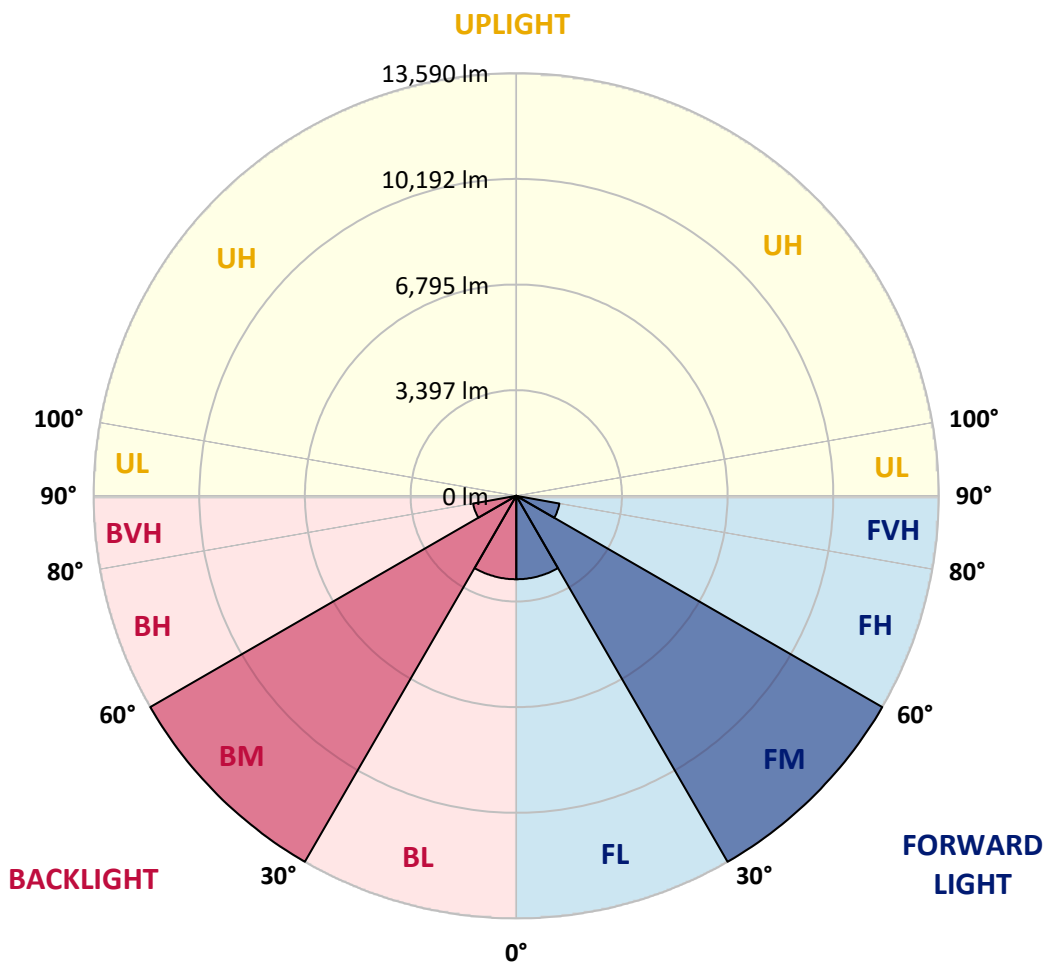


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2683.3	7.6			
FM (30°-60°)	13589.9	38.4			
FH (60°-80°)	1408.9	4.0			G1/1800
FVH (80°-90°)	16.3	0.0			G1/100
BL (0°-30°)	2683.3	7.6	B4/5000		
BM (30°-60°)	13589.9	38.4	B5		
BH (60°-80°)	1408.9	4.0	B3/2500		G1/1800
BVH (80°-90°)	16.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3	6202.3
2.5°	6215.2	6215.2	6221.5	6227.9	6183.0	6163.8	6170.2	6157.4	6151.0	6170.2	6170.2
5°	6195.9	6195.9	6176.6	6183.0	6183.0	6125.3	6125.3	6138.1	6138.1	6099.7	6086.8
7.5°	6144.6	6131.7	6106.1	6138.1	6118.9	6118.9	6074.0	6041.9	6029.1	6054.8	6029.1
10°	6035.5	6041.9	6067.6	6080.4	6067.6	6106.1	6029.1	5984.2	5939.3	5920.1	5920.1
12.5°	5984.2	6022.7	5984.2	6016.3	6061.2	6029.1	5984.2	5952.2	5888.0	5862.4	5862.4
15°	5977.8	6003.5	6016.3	6061.2	6041.9	6054.8	5965.0	5926.5	5830.3	5785.4	5766.1
17.5°	5971.4	6003.5	6022.7	6106.1	6118.9	6125.3	6054.8	5939.3	5856.0	5811.1	5766.1
20°	6041.9	6054.8	6093.2	6176.6	6227.9	6317.8	6189.4	6067.6	5888.0	5836.7	5817.4
22.5°	6131.7	6195.9	6234.3	6324.2	6458.9	6535.8	6369.1	6215.2	6029.1	5965.0	5888.0
25°	6420.4	6407.5	6471.7	6657.7	6766.7	6824.5	6689.7	6465.3	6221.5	6144.6	6157.4
27.5°	6779.6	6792.3	6850.1	7055.3	7215.7	7305.5	7145.1	6850.1	6612.8	6484.5	6471.7
30°	7247.7	7235.0	7299.0	7574.9	7863.5	7998.2	7716.0	7369.6	7138.7	6972.0	7010.4
32.5°	7741.7	7748.0	7927.6	8177.8	8646.0	8909.0	8453.6	8030.3	7683.9	7568.5	7510.7
35°	8472.8	8504.9	8646.0	9030.8	9550.4	9890.3	9390.0	8883.3	8485.7	8274.0	8299.7
37.5°	9377.2	9345.1	9582.4	9999.3	10544.5	10794.7	10371.4	9794.1	9390.0	9248.9	9338.7
40°	10339.3	10371.4	10493.2	10871.6	11481.0	11647.8	11019.2	10704.9	10352.1	10281.6	10390.6
42.5°	11301.4	11282.1	11371.9	11711.9	12154.5	12039.0	11666.9	11481.0	11230.8	11089.7	11237.3
45°	12006.9	11974.8	12141.6	12372.5	12532.8	12314.8	12148.0	12083.9	11955.6	11801.7	11936.4
47.5°	12693.2	12667.6	12827.9	12892.0	12904.9	12616.3	12648.3	12763.8	12443.1	12122.3	12276.3
50°	13276.9	13232.0	13430.8	13571.9	13539.8	13078.1	13193.5	13078.1	12577.7	12199.3	12141.6
52.5°	14251.8	14271.0	14482.7	14739.3	14662.3	14277.5	14110.7	13584.8	12943.3	12603.4	12404.6
55°	14867.5	14771.3	15136.9	15951.5	16041.3	15643.6	14906.1	14129.9	13167.9	12750.9	12699.6
56°	14290.3	14412.1	14989.4	15900.2	16362.0	15996.4	14925.2	13995.2	12936.9	12372.5	12334.0
57.5°	12821.5	12757.4	13539.8	14784.2	16041.3	15887.3	14399.3	13033.1	11801.7	11166.7	11089.7
60°	7979.0	8164.9	8851.3	10390.6	12071.0	12148.0	10672.8	9499.1	8062.3	7497.9	7632.6
62.5°	3123.6	2963.3	3393.0	4541.1	5695.6	5952.2	5394.1	4483.4	3681.6	3123.6	3085.1
65°	724.8	705.5	795.3	1096.7	1533.0	1776.7	1686.9	1212.2	891.5	846.6	782.5
67.5°	410.5	410.5	391.2	391.2	429.8	455.4	436.1	429.8	449.0	468.2	461.8
70°	288.6	282.2	269.4	275.8	263.0	263.0	282.2	314.3	339.9	339.9	346.3
72.5°	173.2	173.2	173.2	192.4	192.4	192.4	211.7	237.3	243.7	237.3	230.9
75°	77.0	77.0	89.8	109.1	121.9	128.3	147.5	160.4	173.2	160.4	147.5
77.5°	19.3	19.3	32.0	44.9	57.7	70.6	96.2	115.5	121.9	115.5	96.2
80°	6.4	6.4	12.9	32.0	57.7	70.6	96.2	102.6	109.1	96.2	77.0
82.5°	6.4	6.4	12.9	32.0	44.9	57.7	77.0	89.8	96.2	83.3	77.0
85°	0.0	6.4	12.9	25.7	38.5	51.3	51.3	38.5	32.0	19.3	25.7
87.5°	0.0	0.0	6.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)