

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: P651600

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61858.9 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

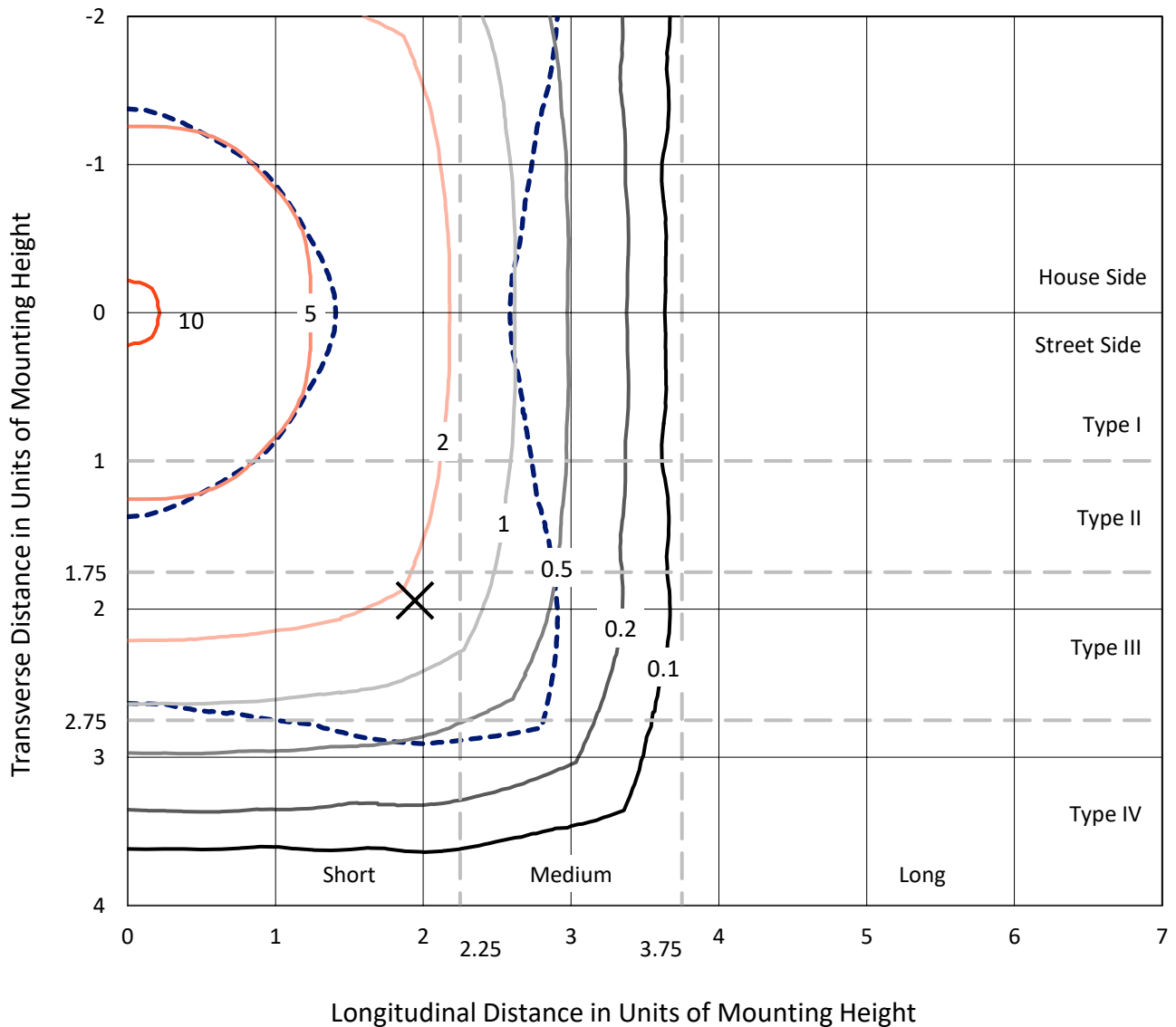
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

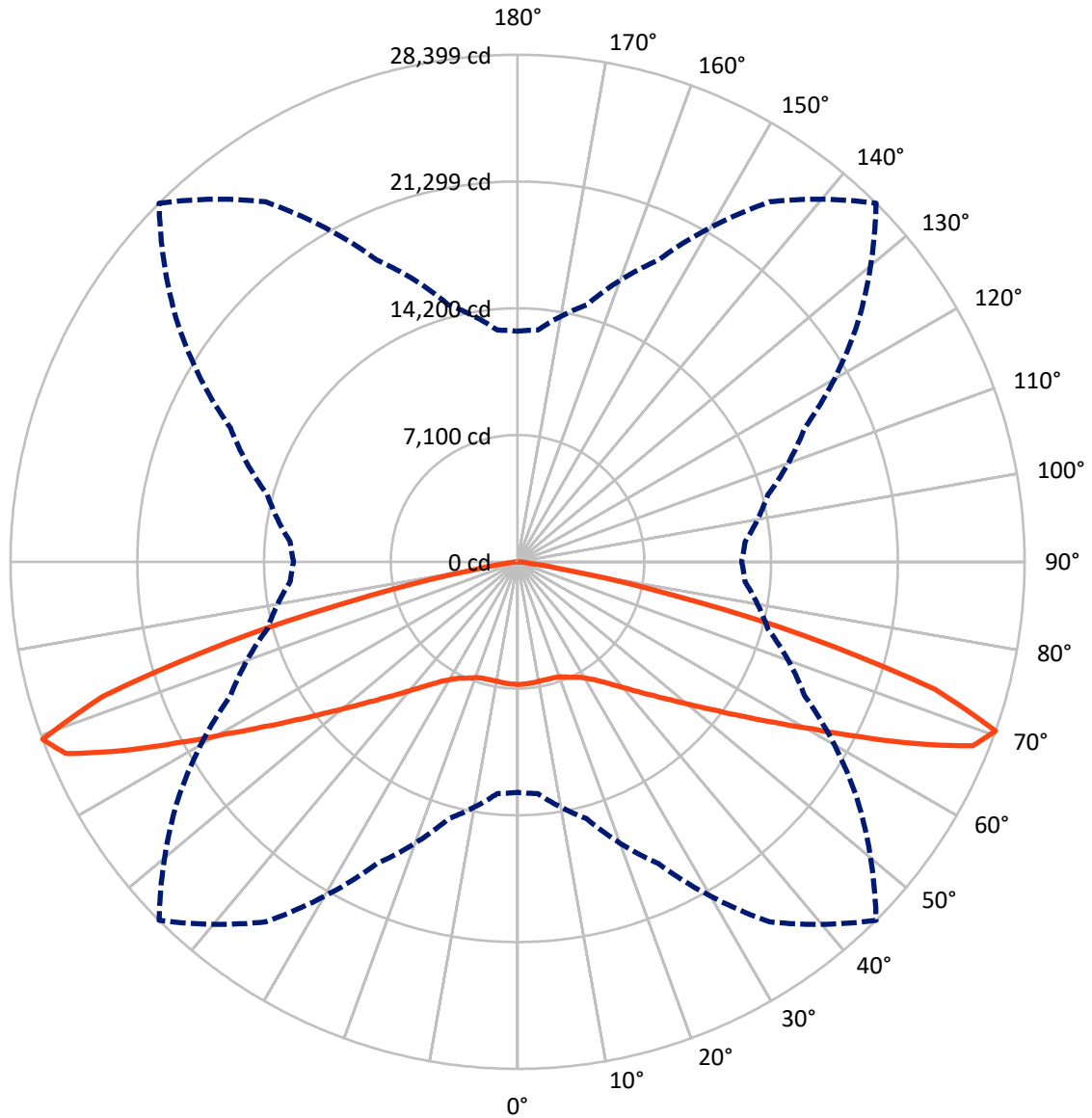
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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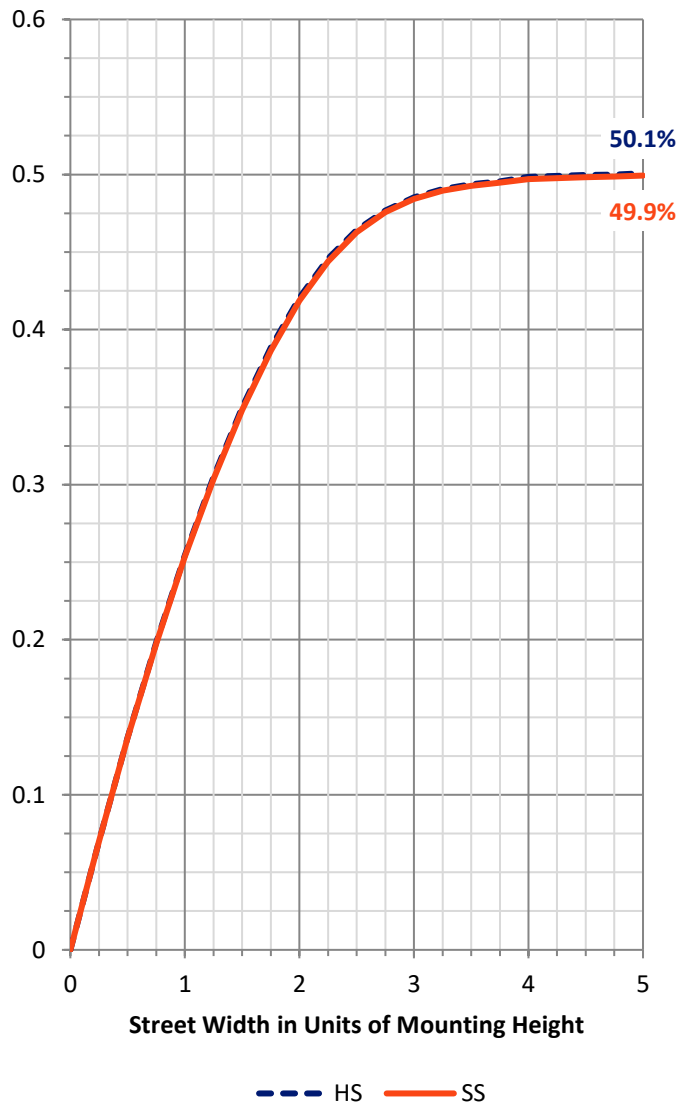
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30929.5	0.0	30929.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30929.5	0.0	30929.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	61858.9	0.0	61858.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.4	1.1
10°-20°	1911.5	3.1
20°-30°	3269.2	5.3
30°-40°	5188.9	8.4
40°-50°	8371.1	13.5
50°-60°	13619.9	22.0
60°-70°	19743.9	31.9
70°-80°	8757.7	14.2
80°-90°	345.4	0.6
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°	61858.9	100.0
0°-180°	61858.9	100.0

Coefficient of Utilization



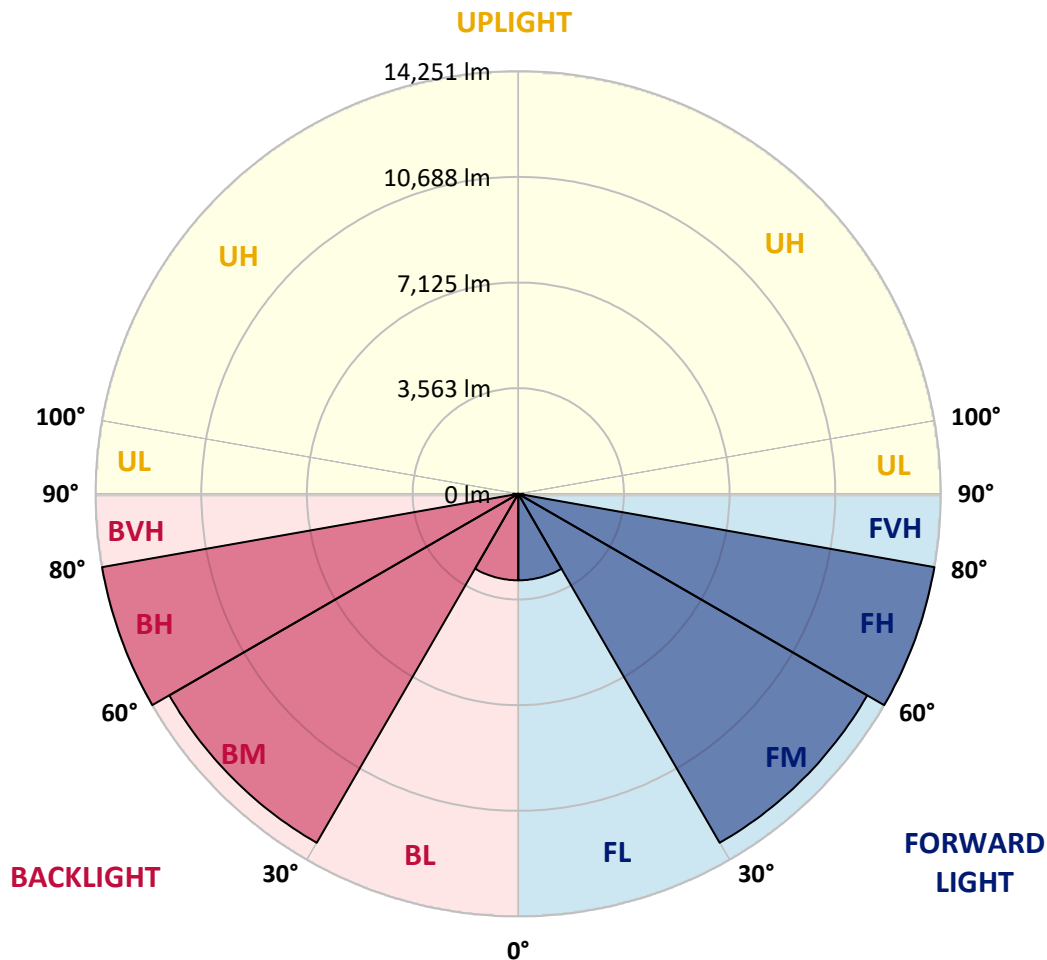
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2916.0	4.7			
FM (30°-60°)	13589.9	22.0			
FH (60°-80°)	14250.8	23.0			G5
FVH (80°-90°)	172.7	0.3			G2/225
BL (0°-30°)	2916.0	4.7	B4/5000		
BM (30°-60°)	13589.9	22.0	B5		
BH (60°-80°)	14250.8	23.0	B5		G5
BVH (80°-90°)	172.7	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6869.1	6869.1	6869.1	6869.1	6869.1	6869.1	6869.1	6869.1	6869.1	6869.1	6869.1
2.5°	6869.1	6875.7	6865.8	6859.4	6856.1	6856.1	6852.8	6856.1	6875.7	6879.0	6869.1
5°	6849.6	6856.1	6852.8	6846.3	6843.0	6843.0	6839.8	6836.6	6852.8	6859.4	6856.1
7.5°	6823.5	6826.7	6823.5	6820.3	6823.5	6820.3	6810.4	6803.9	6817.0	6817.0	6813.7
10°	6777.9	6784.3	6781.2	6784.3	6790.9	6790.9	6777.9	6764.8	6768.1	6761.6	6761.6
12.5°	6722.4	6732.2	6735.5	6748.5	6764.8	6784.3	6755.0	6725.7	6719.2	6715.9	6712.7
15°	6686.5	6696.4	6709.4	6722.4	6751.8	6794.2	6751.8	6706.1	6693.1	6680.1	6673.5
17.5°	6676.8	6689.8	6709.4	6728.9	6768.1	6810.4	6774.6	6728.9	6696.4	6676.8	6670.3
20°	6702.9	6712.7	6742.0	6777.9	6833.3	6875.7	6839.8	6790.9	6742.0	6712.7	6702.9
22.5°	6755.0	6771.3	6807.2	6872.4	6950.6	7012.6	6963.6	6882.2	6803.9	6764.8	6751.8
25°	6869.1	6882.2	6924.5	7012.6	7103.8	7162.5	7110.4	7015.9	6908.2	6856.1	6839.8
27.5°	7041.9	7061.5	7107.1	7211.5	7286.4	7319.1	7283.1	7218.0	7139.8	7084.3	7071.3
30°	7286.4	7309.3	7377.8	7488.6	7537.5	7557.1	7540.7	7498.4	7442.9	7384.2	7371.2
32.5°	7615.7	7628.8	7707.0	7811.3	7857.0	7863.5	7843.9	7824.3	7733.1	7635.3	7628.8
35°	7984.1	8006.9	8101.4	8225.4	8267.8	8271.0	8231.9	8202.5	8095.0	8016.7	8016.7
37.5°	8473.2	8482.9	8574.2	8714.4	8760.0	8747.0	8727.4	8701.3	8587.3	8486.2	8489.5
40°	9046.9	9066.5	9144.7	9307.8	9307.8	9291.5	9304.5	9284.9	9170.8	9073.0	9076.2
42.5°	9728.3	9738.1	9832.6	10005.4	9992.3	9959.8	9972.8	9946.8	9875.0	9764.2	9725.1
45°	10455.3	10494.4	10657.4	10823.7	10797.6	10693.3	10745.5	10739.0	10673.7	10507.5	10517.2
47.5°	11332.3	11397.5	11554.0	11752.9	11723.5	11560.5	11619.2	11658.3	11567.0	11384.4	11351.8
50°	12320.1	12362.5	12594.0	12779.8	12753.7	12580.9	12714.6	12721.1	12492.9	12235.4	12235.4
52.5°	13373.2	13415.5	13728.5	14018.6	14034.9	13783.9	13891.5	13885.0	13513.4	13174.3	13109.1
55°	14553.3	14572.8	14977.1	15404.3	15495.5	15251.0	15264.1	15133.6	14651.1	14256.6	14220.8
57.5°	15772.6	15844.4	16291.0	16845.2	17115.8	16965.8	16897.4	16548.5	16082.4	15629.1	15606.4
60°	17122.3	17125.6	17705.9	18361.2	18908.9	19010.0	18729.6	18263.4	17660.2	17060.4	17034.3
62.5°	18058.0	18198.1	18931.7	20040.2	21021.5	21588.7	20848.6	19870.6	18683.9	17715.7	17617.9
65°	18250.4	18344.9	19463.1	21341.0	23346.0	24568.5	22857.0	20777.0	18752.4	17461.3	17396.2
67.5°	16695.3	16796.3	18302.5	21184.5	24976.0	27483.1	24161.0	20340.1	17591.8	15994.3	15867.1
70°	12913.5	13027.6	14889.1	18648.1	24614.1	28399.2	23231.9	17741.7	14507.7	12783.0	12551.6
72.5°	6865.8	7286.4	8877.4	12799.3	19978.2	24451.1	19049.1	12946.1	9356.6	7648.3	7341.8
75°	2507.0	2559.2	3446.0	5675.9	11622.5	16766.9	12069.1	6174.7	3550.3	2741.8	2601.6
77.5°	1036.7	1033.5	1134.5	1714.8	4221.9	8587.3	4710.9	1812.6	1131.3	1046.5	1033.5
80°	612.9	612.9	674.8	714.0	1111.7	2591.8	1242.2	808.5	678.1	619.4	629.2
82.5°	273.8	290.1	427.1	449.9	537.9	710.7	599.9	515.1	443.4	306.5	277.1
85°	150.0	130.4	225.0	234.7	257.5	264.1	283.7	280.4	257.5	150.0	153.2
87.5°	29.4	35.8	65.2	48.9	55.4	48.9	65.2	91.2	94.5	52.1	42.4
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)