

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: P534308

Luminaire Tested: **GALN-SA9D-740-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-740-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63168 lumens
Efficiency: N/A
Efficacy: 114.4 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

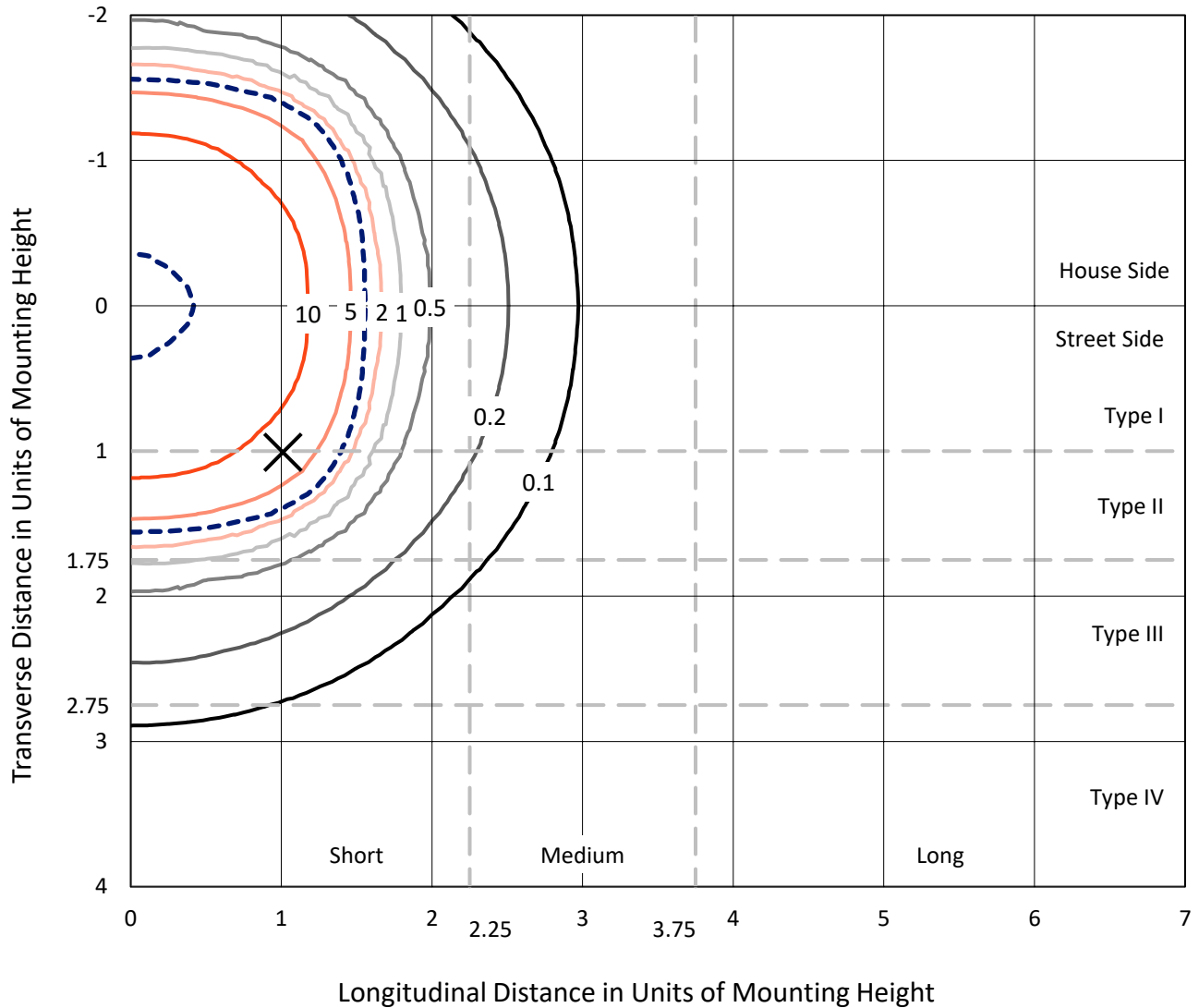
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

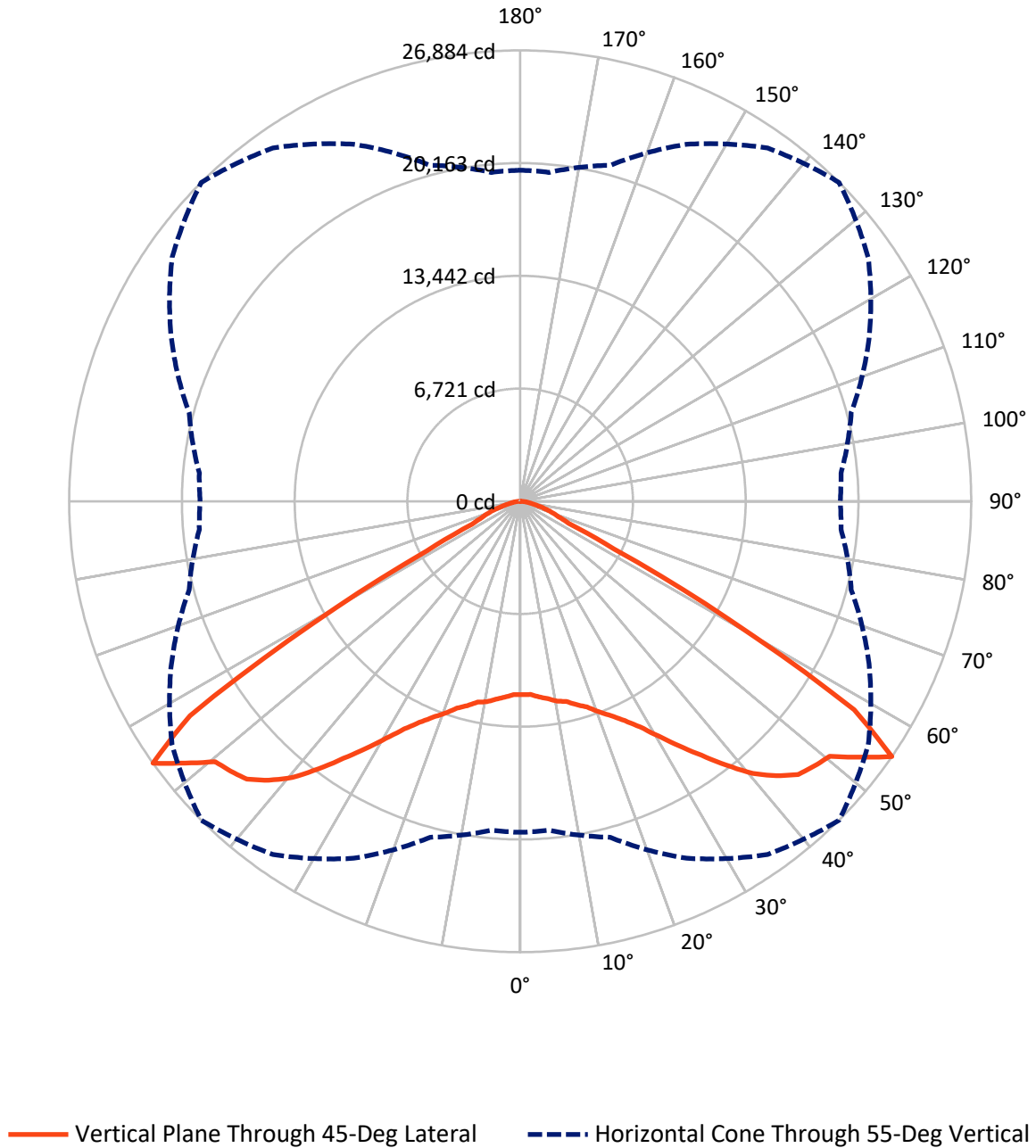
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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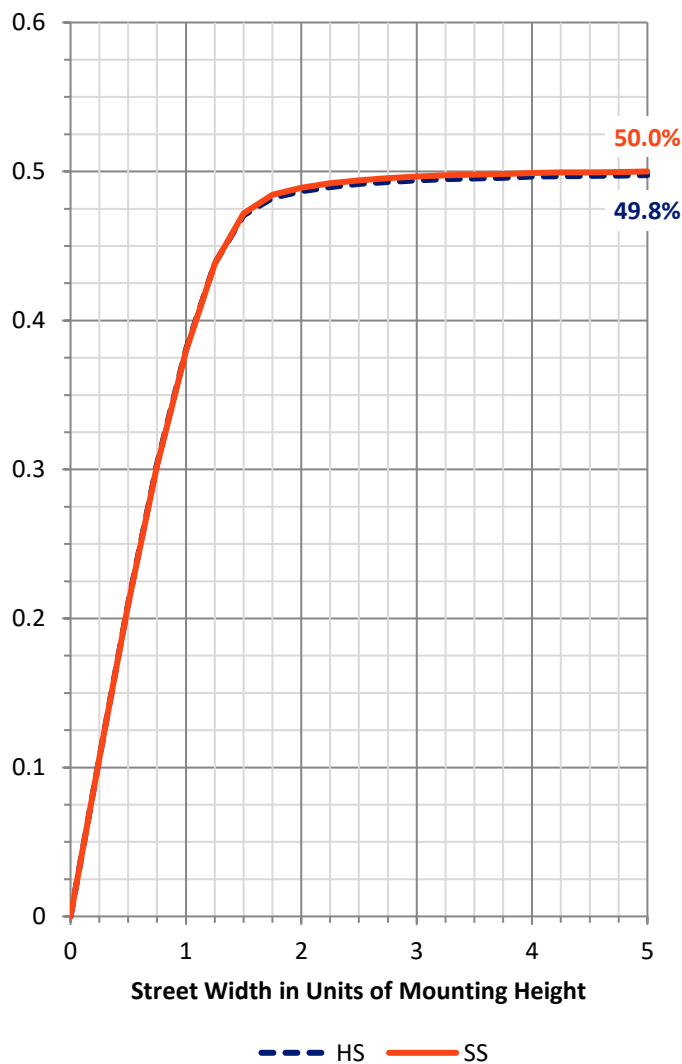
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	31584.0	0.0	31584.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31584.0	0.0	31584.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	63168.0	0.0	63168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1126.7	1.8
10°-20°	3570.0	5.7
20°-30°	6656.9	10.5
30°-40°	11145.9	17.6
40°-50°	17343.9	27.5
50°-60°	18008.4	28.5
60°-70°	3819.0	6.0
70°-80°	1257.7	2.0
80°-90°	239.5	0.4
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°	63168.0	100.0
0°-180°	63168.0	100.0

Coefficient of Utilization

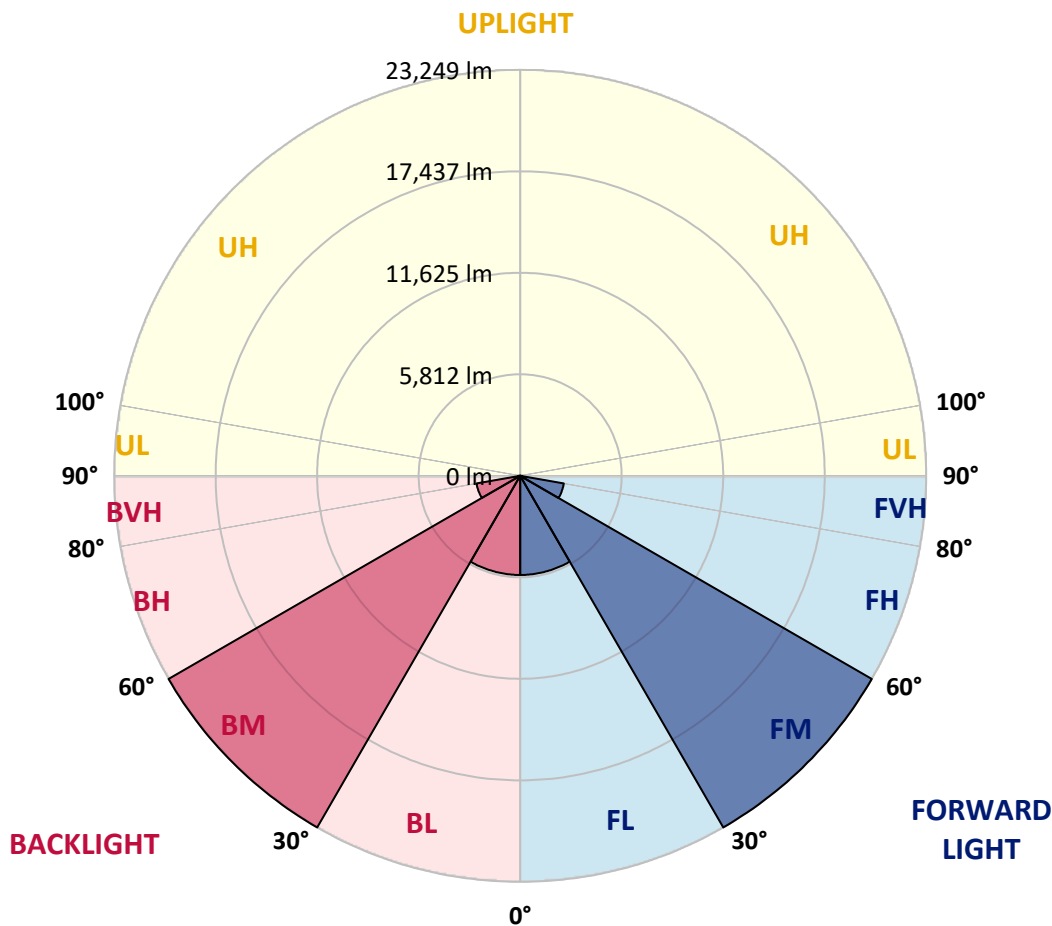


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5676.8	9.0			
FM (30°-60°)	23249.1	36.8			
FH (60°-80°)	2538.3	4.0			G2/5000
FVH (80°-90°)	119.8	0.2			G2/225
BL (0°-30°)	5676.8	9.0	B5		
BM (30°-60°)	23249.1	36.8	B5		
BH (60°-80°)	2538.3	4.0	B4/5000		G2/5000
BVH (80°-90°)	119.8	0.2			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°	11533.5	11533.5	11533.5	11533.5	11533.5	11533.5	11533.5	11533.5	11533.5	11533.5	11533.5
2.5°	11670.9	11617.5	11525.9	11594.6	11648.0	11533.5	11579.3	11602.2	11587.0	11525.9	11548.8
5°	11838.9	11808.3	11732.0	11785.4	11716.7	11716.7	11670.9	11609.9	11701.5	11686.2	11724.4
7.5°	11838.9	11800.7	11953.4	11854.1	11884.7	11884.7	11808.3	11747.3	11793.1	11724.4	11686.2
10°	12075.5	12128.9	12060.2	12083.1	12067.8	12121.3	12006.8	11968.6	11930.5	11907.6	11861.8
12.5°	12357.9	12319.7	12342.6	12327.4	12380.8	12243.4	12174.7	12090.7	12159.4	12060.2	12128.9
15°	12586.9	12564.0	12586.9	12648.0	12594.5	12586.9	12464.8	12380.8	12273.9	12296.8	12190.0
17.5°	12899.9	12877.0	12884.6	12938.0	12930.4	12892.2	12800.6	12640.3	12602.2	12541.1	12472.4
20°	13365.5	13327.3	13312.0	13334.9	13373.1	13403.6	13220.4	13159.4	13029.6	12930.4	12815.9
22.5°	13762.4	13747.1	13808.2	13709.0	13792.9	13884.5	13709.0	13678.4	13357.8	13304.4	13182.3
25°	14312.0	14289.1	14250.9	14395.9	14495.2	14487.5	14319.6	14151.7	13907.4	13846.3	13846.3
27.5°	14892.1	14762.3	14960.8	14998.9	15174.5	15227.9	15082.9	14838.6	14609.7	14479.9	14510.4
30°	15617.2	15495.1	15540.9	15815.7	16044.7	16243.1	15876.7	15518.0	15197.4	14968.4	14930.2
32.5°	16342.4	16220.2	16357.6	16624.8	17082.8	17380.4	17021.7	16395.8	16021.8	15685.9	15754.6
35°	16930.1	17021.7	17243.1	17647.6	18120.9	18601.7	18029.3	17548.4	17014.1	16640.0	16693.5
37.5°	17876.6	18159.0	18334.6	18800.2	19471.9	19968.1	19372.7	18746.8	18174.3	17685.8	17517.8
40°	19113.2	19304.0	19502.4	20052.0	20845.9	21342.0	20777.2	19960.4	19395.6	18891.8	18868.9
42.5°	20471.8	20655.0	20861.1	21532.8	22006.1	22380.1	21861.0	21426.0	20800.1	20403.1	20380.2
45°	22051.9	21922.1	22151.1	22593.8	22990.7	23235.0	22899.1	22685.4	22235.1	21868.7	21830.5
47.5°	23105.2	22990.7	23402.9	23799.8	23860.9	23593.7	23662.4	23860.9	23387.7	22784.6	22975.5
50°	23715.9	23715.9	23990.7	24357.1	24242.6	23899.1	24441.0	24456.3	23983.0	23448.7	23448.7
52.5°	22654.9	22891.5	23670.1	24868.5	25250.1	25349.4	25227.2	24708.2	23471.6	22380.1	22326.7
55°	19739.1	19685.6	20739.0	23486.9	25708.1	26883.6	25326.5	22937.3	20426.0	19197.1	19075.0
57.5°	12838.8	12899.9	14472.3	17273.6	21280.9	23471.6	20845.9	17487.3	14472.3	12777.7	12938.0
60°	5778.2	5984.3	6938.4	9029.9	12472.4	14258.5	12502.9	9487.9	7281.9	6320.2	6404.1
62.5°	3320.4	3358.5	3396.7	4030.2	5312.6	6282.0	5518.7	4259.2	3755.5	3587.5	3587.5
65°	2801.3	2778.4	2786.1	2839.5	2976.9	3175.3	3091.4	2976.9	2992.2	2976.9	2954.0
67.5°	2381.5	2412.0	2389.1	2427.3	2434.9	2465.5	2518.9	2564.7	2572.3	2587.6	2572.3
70°	1954.1	1961.7	1977.0	2007.5	2015.1	2038.0	2114.4	2152.5	2175.4	2175.4	2206.0
72.5°	1496.1	1488.4	1503.7	1534.2	1572.4	1580.0	1648.7	1702.2	1732.7	1694.5	1702.2
75°	984.7	992.3	1015.2	1038.1	1091.5	1145.0	1167.9	1221.3	1228.9	1244.2	1206.0
77.5°	587.7	603.0	625.9	671.7	717.5	763.3	816.7	854.9	870.2	854.9	809.1
80°	381.7	381.7	412.2	450.3	503.8	541.9	572.5	603.0	625.9	603.0	587.7
82.5°	236.6	236.6	274.8	320.6	358.8	381.7	427.5	465.6	488.5	473.2	450.3
85°	122.1	129.8	160.3	198.5	229.0	244.3	236.6	213.7	190.8	183.2	167.9
87.5°	38.2	38.2	45.8	45.8	38.2	38.2	45.8	38.2	45.8	45.8	45.8
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)