

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: P534333

Luminaire Tested: **GALN-SA9D-750-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534333
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-750-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48178 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

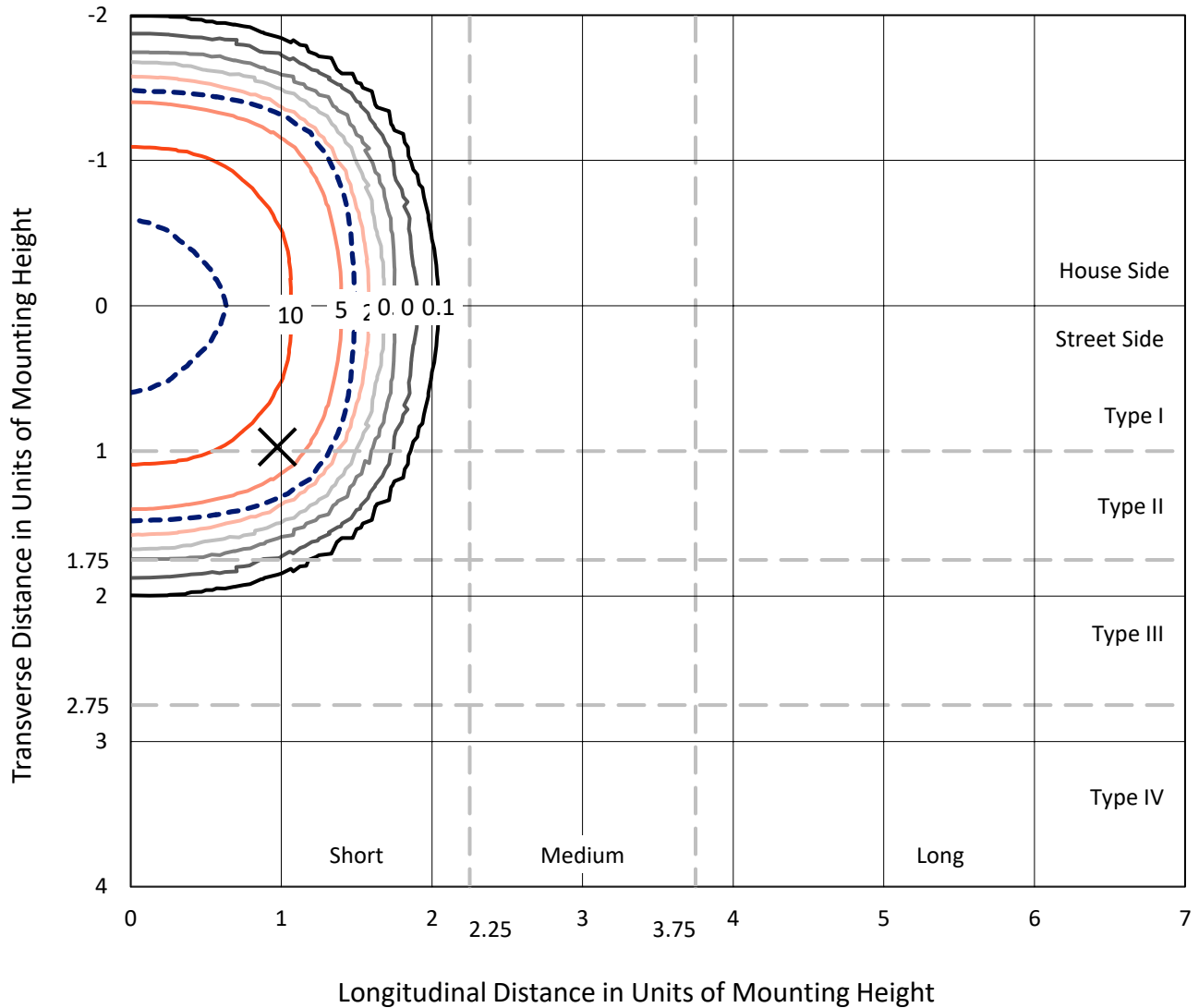
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

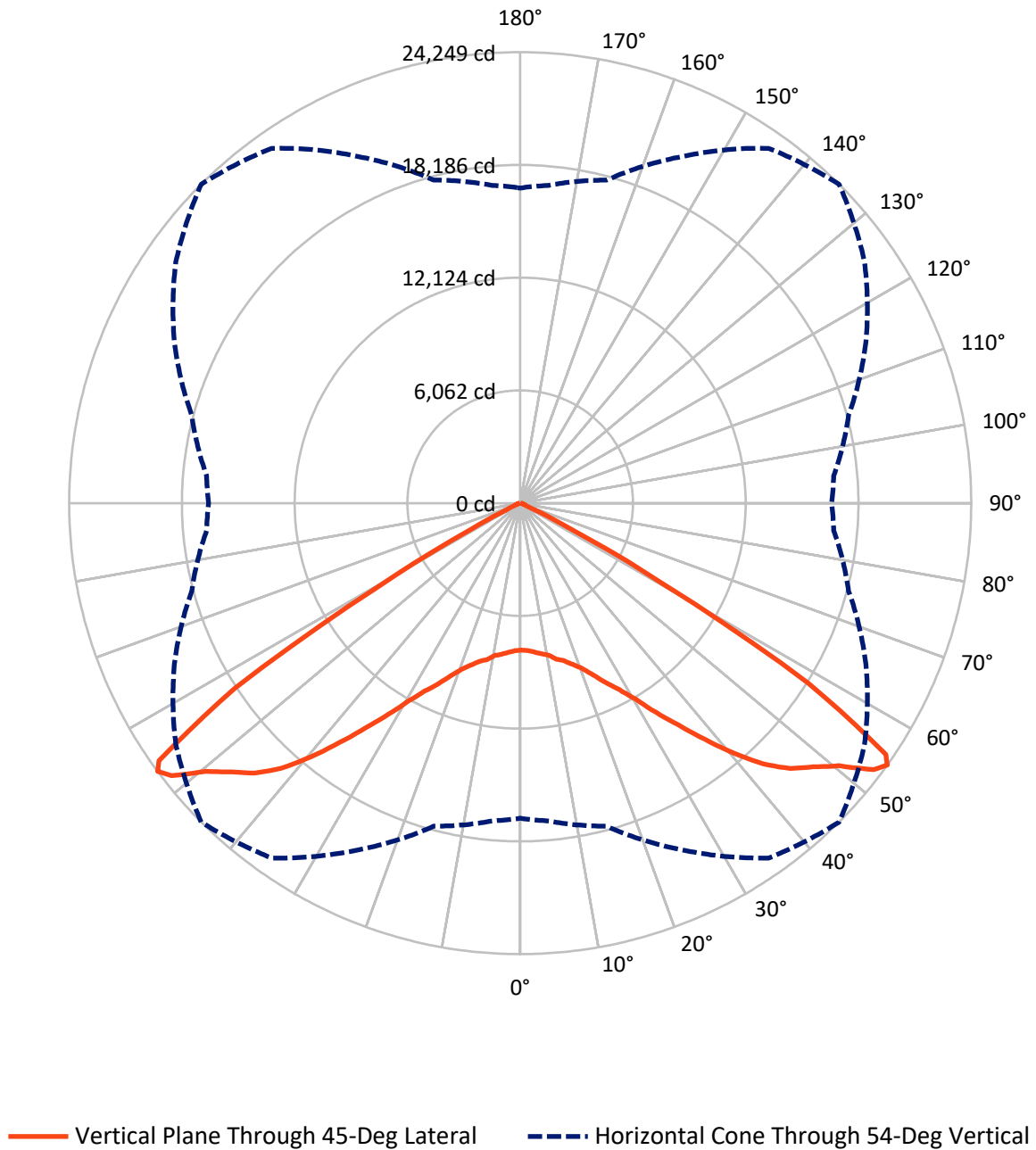
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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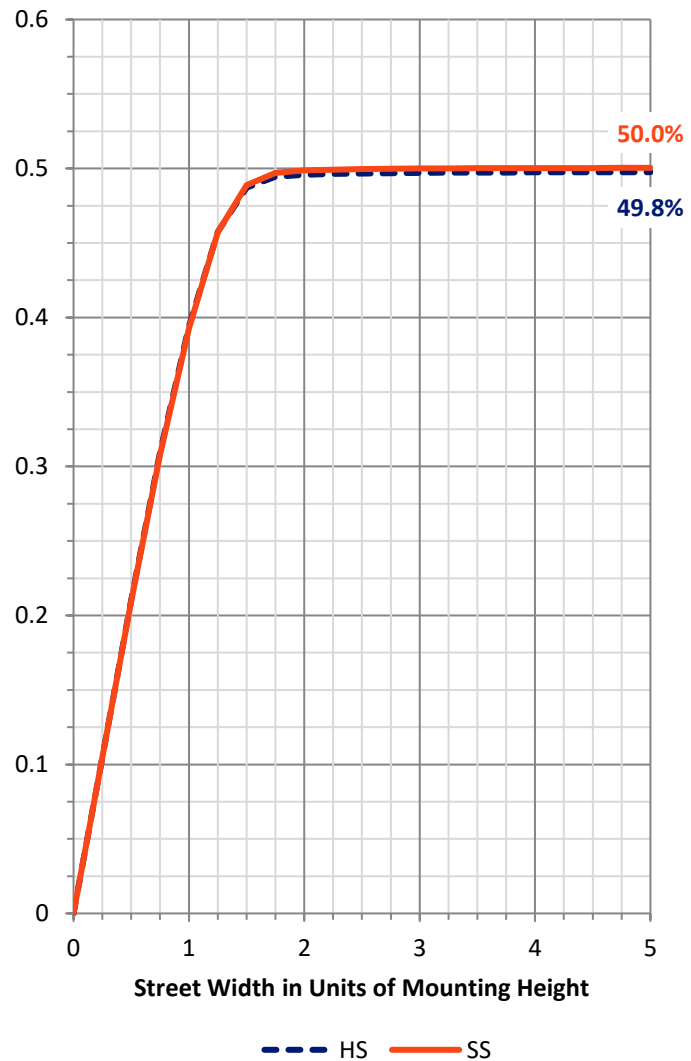
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24089.0	0.0	24089.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24089.0	0.0	24089.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48178.0	0.0	48178.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	773.2	1.6
10°-20°	2503.9	5.2
20°-30°	4907.5	10.2
30°-40°	8824.7	18.3
40°-50°	15106.1	31.4
50°-60°	14616.6	30.3
60°-70°	1251.2	2.6
70°-80°	148.3	0.3
80°-90°	46.5	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°	48178.0	100.0
0°-180°	48178.0	100.0



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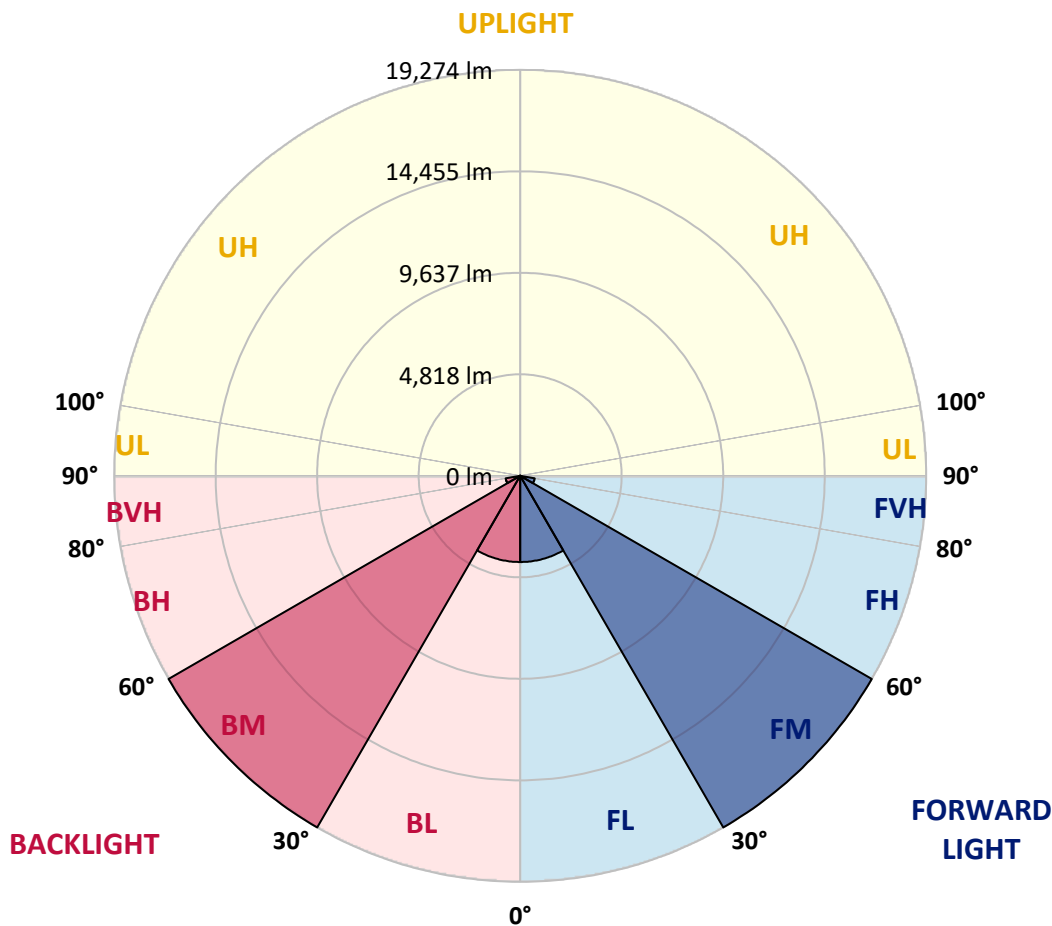
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4092.3	8.5			
FM (30°-60°)	19273.7	40.0			
FH (60°-80°)	699.8	1.5			G1/1800
FVH (80°-90°)	23.3	0.0			G1/100
BL (0°-30°)	4092.3	8.5	B4/5000		
BM (30°-60°)	19273.7	40.0	B5		
BH (60°-80°)	699.8	1.5	B2/1000		G1/1800
BVH (80°-90°)	23.3	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°	7899.7	7899.7	7899.7	7899.7	7899.7	7899.7	7899.7	7899.7	7899.7	7899.7	7899.7
2.5°	7937.9	7983.6	7953.1	7976.0	7976.0	7937.9	7960.8	7869.2	7930.2	7884.4	7892.1
5°	8060.0	8052.3	8052.3	8060.0	8029.4	8044.7	8014.2	7983.6	7960.8	7930.2	8021.8
7.5°	8212.6	8212.6	8159.2	8174.5	8159.2	8182.1	8121.0	8060.0	8037.1	8014.2	7998.9
10°	8357.6	8342.4	8319.5	8388.2	8334.7	8304.2	8273.7	8235.5	8151.6	8121.0	8090.5
12.5°	8571.4	8563.7	8533.2	8601.9	8571.4	8601.9	8487.4	8388.2	8372.9	8273.7	8327.1
15°	8823.2	8891.9	8838.5	8838.5	8823.2	8785.1	8739.3	8693.5	8556.1	8517.9	8525.6
17.5°	9151.4	9128.5	9136.2	9136.2	9212.5	9113.3	9021.7	8907.2	8838.5	8815.6	8739.3
20°	9464.4	9494.9	9487.3	9540.7	9586.5	9479.6	9380.4	9365.1	9174.3	9204.9	9098.0
22.5°	10013.9	9991.0	10029.2	10067.3	10036.8	10021.5	9929.9	9815.5	9647.5	9571.2	9556.0
25°	10594.0	10555.8	10487.1	10578.7	10624.5	10693.2	10517.7	10456.6	10197.1	10082.6	10090.2
27.5°	11090.1	11143.5	11219.9	11258.0	11372.5	11349.6	11227.5	11029.0	10830.6	10700.8	10616.9
30°	11769.4	11799.9	11929.7	11983.1	12181.6	12235.0	12044.2	11815.2	11464.1	11296.2	11197.0
32.5°	12395.3	12609.0	12601.3	12868.5	13189.0	13410.4	13066.9	12715.8	12364.7	12166.3	11990.7
35°	13410.4	13372.2	13593.6	13876.0	14395.0	14646.9	14272.9	13868.3	13334.1	13013.5	12876.1
37.5°	14356.8	14372.1	14669.8	15120.1	15715.4	16104.7	15776.5	15112.5	14562.9	14150.8	13959.9
40°	15730.7	15761.2	16066.5	16577.9	17249.6	17669.4	17287.7	16616.1	15883.3	15562.8	15562.8
42.5°	17341.2	17470.9	17669.4	18112.0	18715.0	19180.6	18837.1	18310.5	17570.1	17158.0	17219.0
45°	18997.4	19058.5	19188.2	19844.6	20127.0	20356.0	20035.4	19791.2	19295.1	18791.3	18707.4
47.5°	20546.8	20569.7	20951.4	21157.4	21378.8	21188.0	21394.0	21073.5	20516.3	20027.8	19928.6
50°	21233.8	21195.6	21737.5	22363.4	22531.3	22195.5	22019.9	21806.2	20959.0	20371.3	20111.8
52.5°	19234.0	19455.4	20462.9	22203.1	23515.9	23798.3	22775.5	21790.9	20211.0	19066.1	18890.6
54°	16944.3	17150.3	17982.3	20562.1	23294.5	24248.6	22600.0	20508.7	18280.0	16921.4	16745.8
55°	14677.4	14448.4	15959.7	18592.9	22256.5	23851.7	21905.4	18852.4	16303.1	15059.0	14814.8
57.5°	7945.5	7983.6	9258.3	11746.5	15639.1	18287.6	16150.5	12754.0	9632.3	8235.5	8113.4
60°	2518.7	2579.8	3137.0	4747.4	7472.3	8922.5	7647.8	5121.4	3541.5	2839.3	2724.8
62.5°	786.2	816.7	893.0	1328.1	2045.5	2923.3	2289.8	1373.9	1022.8	938.8	954.1
65°	480.9	480.9	488.5	519.0	610.6	709.8	686.9	603.0	580.1	564.8	557.2
67.5°	312.9	305.3	320.6	343.5	358.7	366.4	389.3	412.2	404.5	389.3	389.3
70°	190.8	183.2	198.4	229.0	236.6	251.9	274.8	305.3	297.7	282.4	290.0
72.5°	106.9	106.9	114.5	137.4	160.3	175.5	198.4	221.3	229.0	221.3	221.3
75°	38.2	45.8	61.1	84.0	99.2	122.1	145.0	167.9	190.8	175.5	167.9
77.5°	15.3	15.3	30.5	53.4	76.3	99.2	137.4	160.3	175.5	160.3	145.0
80°	7.6	7.6	22.9	45.8	68.7	91.6	114.5	137.4	145.0	129.8	114.5
82.5°	7.6	7.6	22.9	45.8	68.7	84.0	122.1	137.4	152.7	137.4	114.5
85°	0.0	7.6	22.9	45.8	61.1	68.7	68.7	45.8	38.2	22.9	22.9
87.5°	0.0	0.0	7.6	0.0	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)