

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: P528951

Luminaire Tested: **GALN-SA4A-750-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528951
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-SA4A-750-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 615mA 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: 12428 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

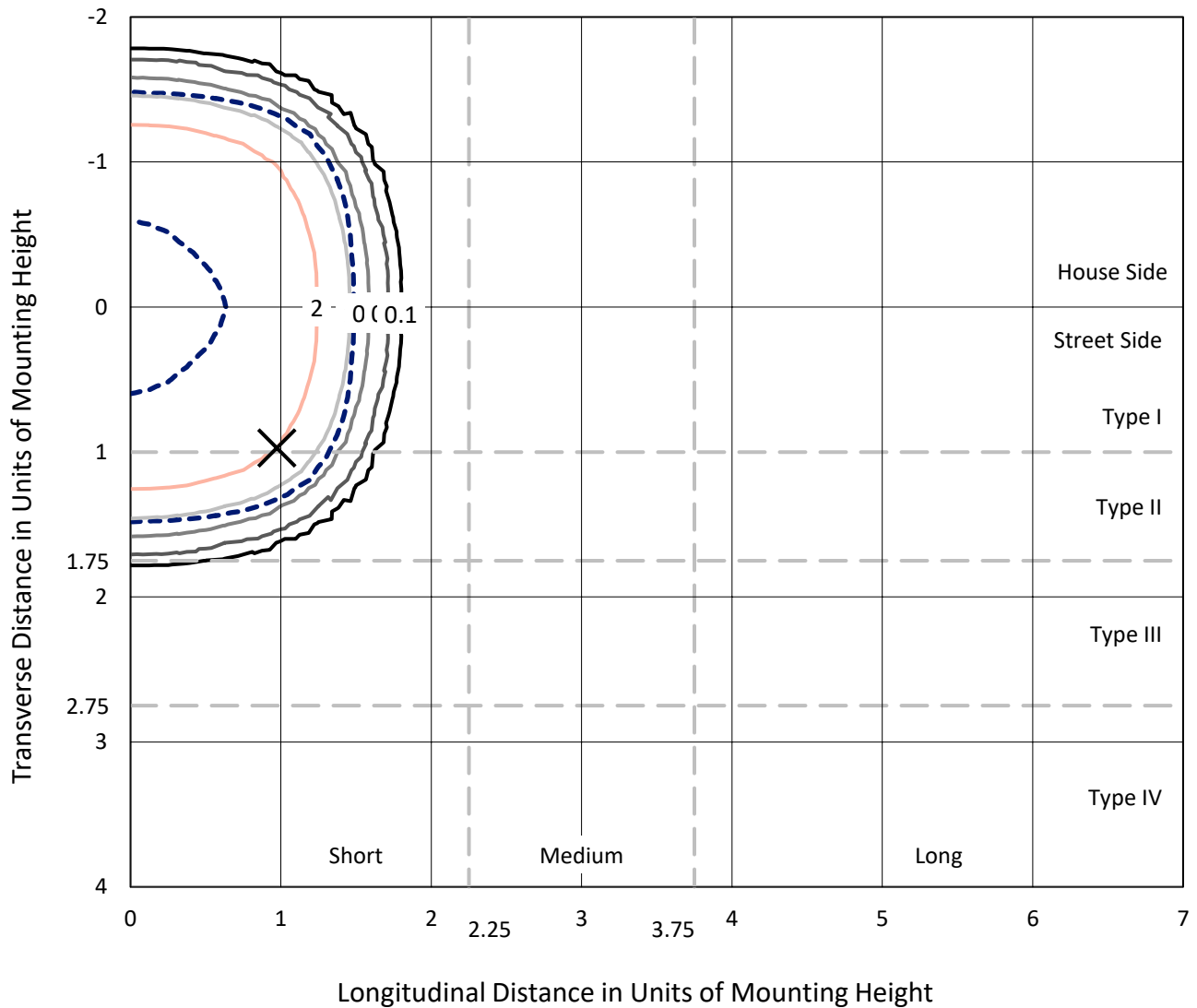
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

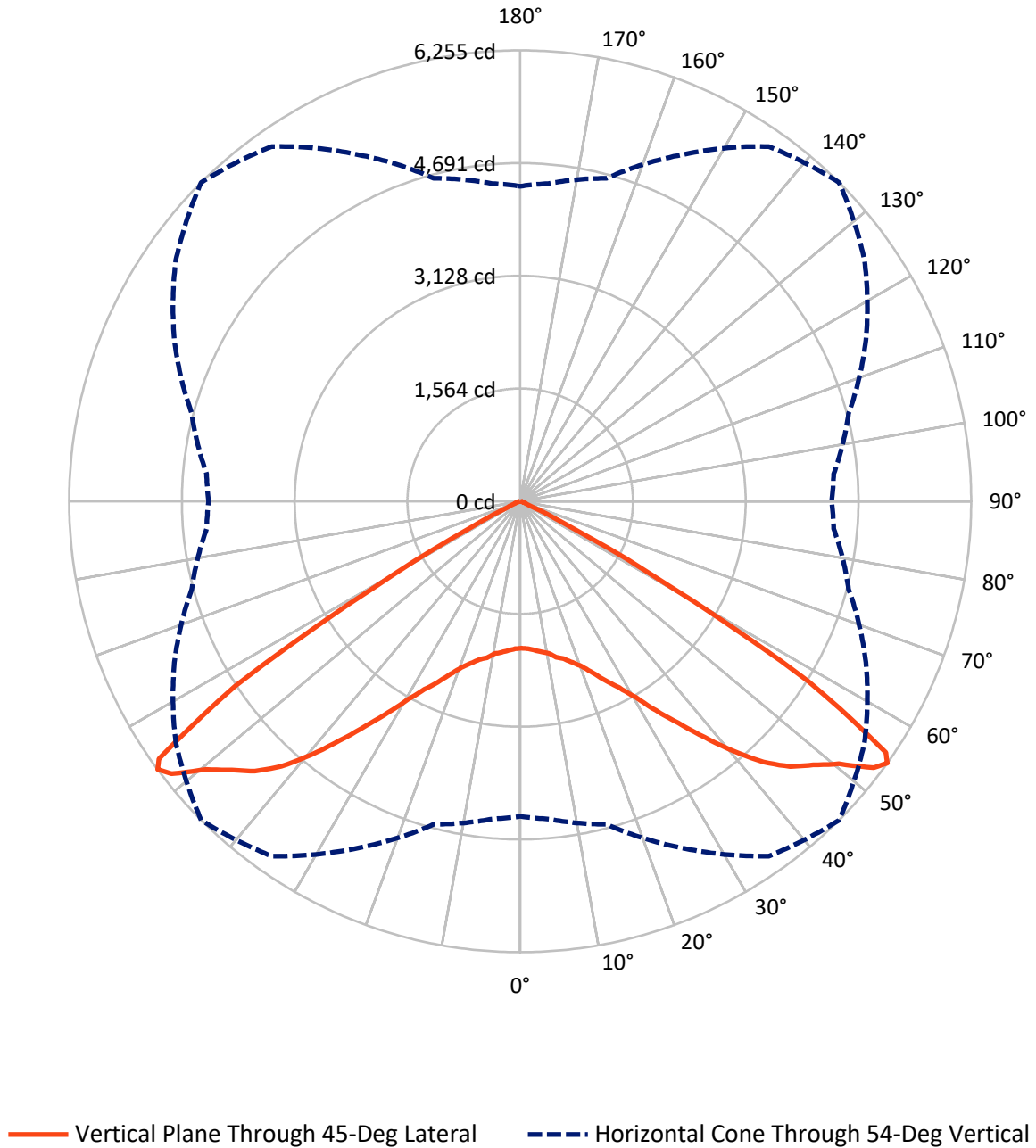
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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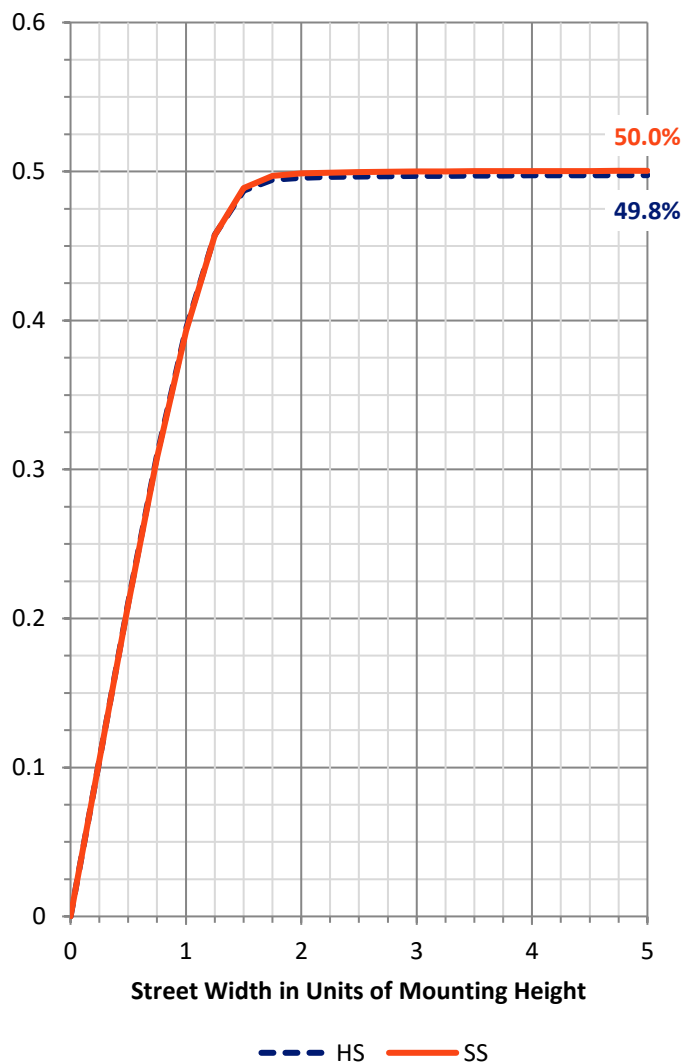
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6214.0	0.0	6214.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6214.0	0.0	6214.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12428.0	0.0	12428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	1.6
10°-20°	645.9	5.2
20°-30°	1265.9	10.2
30°-40°	2276.4	18.3
40°-50°	3896.8	31.4
50°-60°	3770.5	30.3
60°-70°	322.8	2.6
70°-80°	38.3	0.3
80°-90°	12.0	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°	12428.0	100.0
0°-180°	12428.0	100.0

Coefficient of Utilization



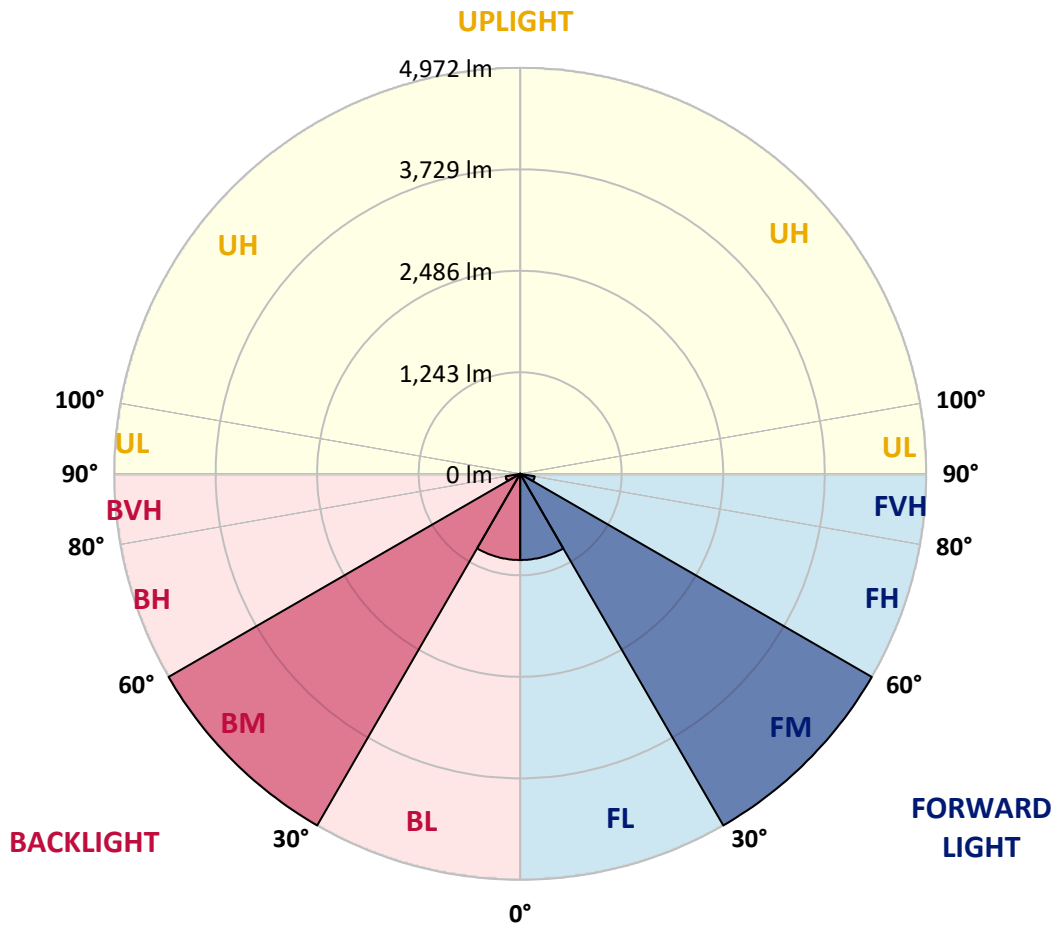
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1055.6	8.5			
FM (30°-60°)	4971.8	40.0			
FH (60°-80°)	180.5	1.5			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	1055.6	8.5	B3/2500		
BM (30°-60°)	4971.8	40.0	B3/5000		
BH (60°-80°)	180.5	1.5	B1/500		G0/660
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8	2037.8
2.5°	2047.6	2059.5	2051.6	2057.5	2057.5	2047.6	2053.6	2029.9	2045.7	2033.9	2035.8
5°	2079.2	2077.2	2077.2	2079.2	2071.3	2075.2	2067.3	2059.5	2053.6	2045.7	2069.3
7.5°	2118.5	2118.5	2104.7	2108.7	2104.7	2110.7	2094.9	2079.2	2073.2	2067.3	2063.4
10°	2155.9	2152.0	2146.1	2163.8	2150.0	2142.2	2134.3	2124.4	2102.8	2094.9	2087.0
12.5°	2211.1	2209.1	2201.2	2218.9	2211.1	2218.9	2189.4	2163.8	2159.9	2134.3	2148.1
15°	2276.0	2293.8	2280.0	2280.0	2276.0	2266.2	2254.4	2242.6	2207.1	2197.3	2199.3
17.5°	2360.7	2354.8	2356.8	2356.8	2376.5	2350.9	2327.2	2297.7	2280.0	2274.1	2254.4
20°	2441.4	2449.3	2447.3	2461.1	2472.9	2445.4	2419.8	2415.8	2366.6	2374.5	2346.9
22.5°	2583.2	2577.3	2587.1	2597.0	2589.1	2585.2	2561.5	2532.0	2488.7	2469.0	2465.1
25°	2732.8	2723.0	2705.3	2728.9	2740.7	2758.4	2713.1	2697.4	2630.4	2600.9	2602.9
27.5°	2860.8	2874.6	2894.3	2904.1	2933.7	2927.7	2896.2	2845.1	2793.9	2760.4	2738.7
30°	3036.0	3043.9	3077.4	3091.2	3142.4	3156.1	3106.9	3047.8	2957.3	2914.0	2888.4
32.5°	3197.5	3252.6	3250.6	3319.6	3402.2	3459.3	3370.7	3280.2	3189.6	3138.4	3093.1
35°	3459.3	3449.5	3506.6	3579.4	3713.3	3778.3	3681.8	3577.5	3439.7	3357.0	3321.5
37.5°	3703.5	3707.4	3784.2	3900.4	4054.0	4154.4	4069.7	3898.4	3756.6	3650.3	3601.1
40°	4057.9	4065.8	4144.5	4276.4	4449.7	4558.0	4459.5	4286.3	4097.3	4014.6	4014.6
42.5°	4473.3	4506.8	4558.0	4672.2	4827.7	4947.8	4859.2	4723.4	4532.4	4426.1	4441.8
45°	4900.6	4916.3	4949.8	5119.1	5192.0	5251.0	5168.3	5105.3	4977.4	4847.4	4825.8
47.5°	5300.3	5306.2	5404.6	5457.8	5514.9	5465.6	5518.8	5436.1	5292.4	5166.4	5140.8
50°	5477.5	5467.6	5607.4	5768.9	5812.2	5725.5	5680.3	5625.1	5406.6	5255.0	5188.0
52.5°	4961.6	5018.7	5278.6	5727.5	6066.2	6139.0	5875.2	5621.2	5213.6	4918.3	4873.0
54°	4370.9	4424.1	4638.7	5304.2	6009.1	6255.2	5829.9	5290.4	4715.5	4365.0	4319.8
55°	3786.2	3727.1	4117.0	4796.2	5741.3	6152.8	5650.7	4863.2	4205.6	3884.6	3821.6
57.5°	2049.6	2059.5	2388.3	3030.1	4034.3	4717.5	4166.2	3290.0	2484.7	2124.4	2092.9
60°	649.7	665.5	809.2	1224.7	1927.5	2301.6	1972.8	1321.1	913.6	732.4	702.9
62.5°	202.8	210.7	230.4	342.6	527.7	754.1	590.7	354.4	263.8	242.2	246.1
65°	124.0	124.0	126.0	133.9	157.5	183.1	177.2	155.5	149.6	145.7	143.7
67.5°	80.7	78.8	82.7	88.6	92.5	94.5	100.4	106.3	104.4	100.4	100.4
70°	49.2	47.3	51.2	59.1	61.0	65.0	70.9	78.8	76.8	72.8	74.8
72.5°	27.6	27.6	29.5	35.4	41.3	45.3	51.2	57.1	59.1	57.1	57.1
75°	9.8	11.8	15.8	21.7	25.6	31.5	37.4	43.3	49.2	45.3	43.3
77.5°	3.9	3.9	7.9	13.8	19.7	25.6	35.4	41.3	45.3	41.3	37.4
80°	2.0	2.0	5.9	11.8	17.7	23.6	29.5	35.4	37.4	33.5	29.5
82.5°	2.0	2.0	5.9	11.8	17.7	21.7	31.5	35.4	39.4	35.4	29.5
85°	0.0	2.0	5.9	11.8	15.8	17.7	17.7	11.8	9.8	5.9	5.9
87.5°	0.0	0.0	2.0	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)