

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: P453672

Luminaire Tested: **GALN-SA4D-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4D-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26786 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

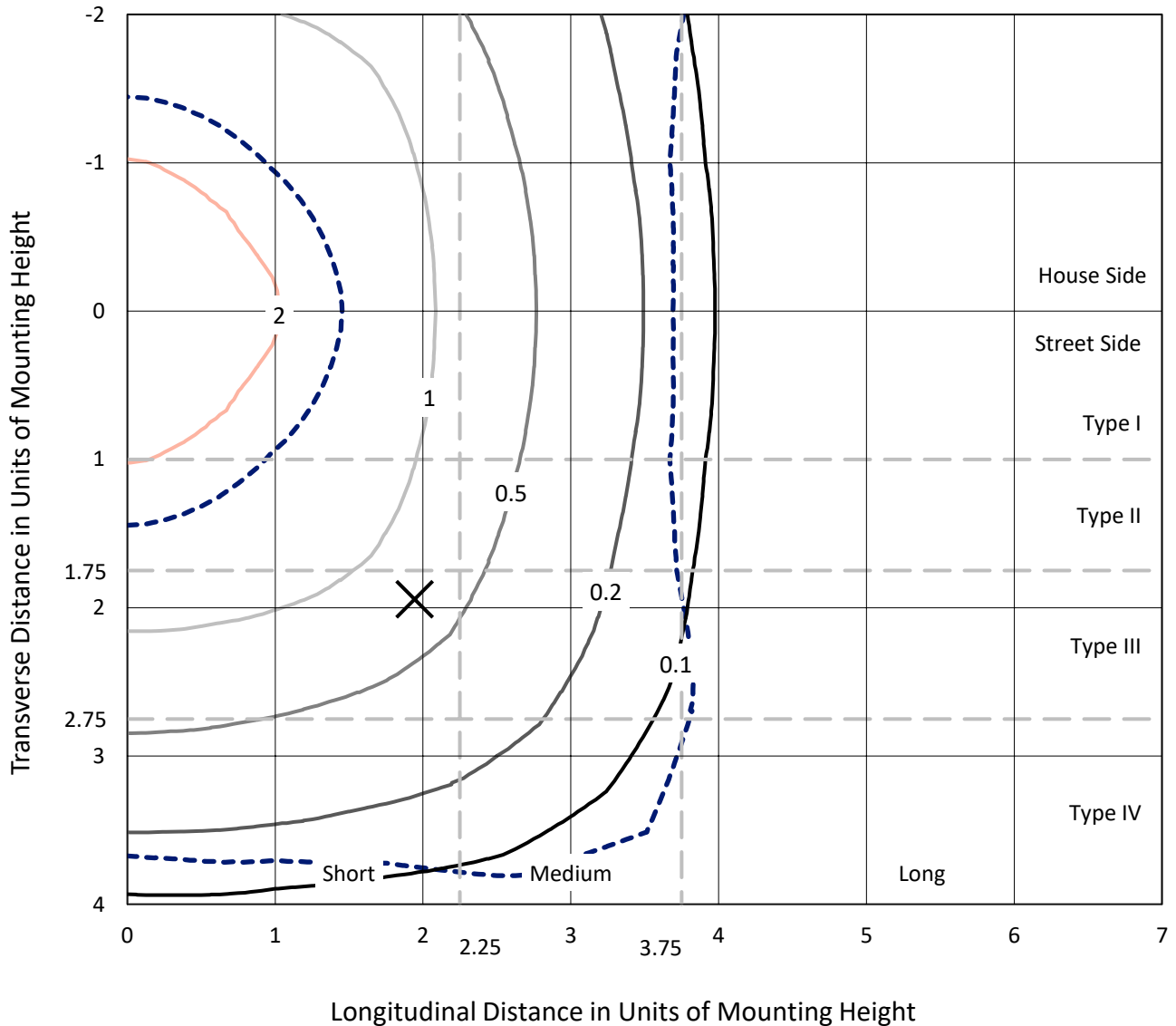
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

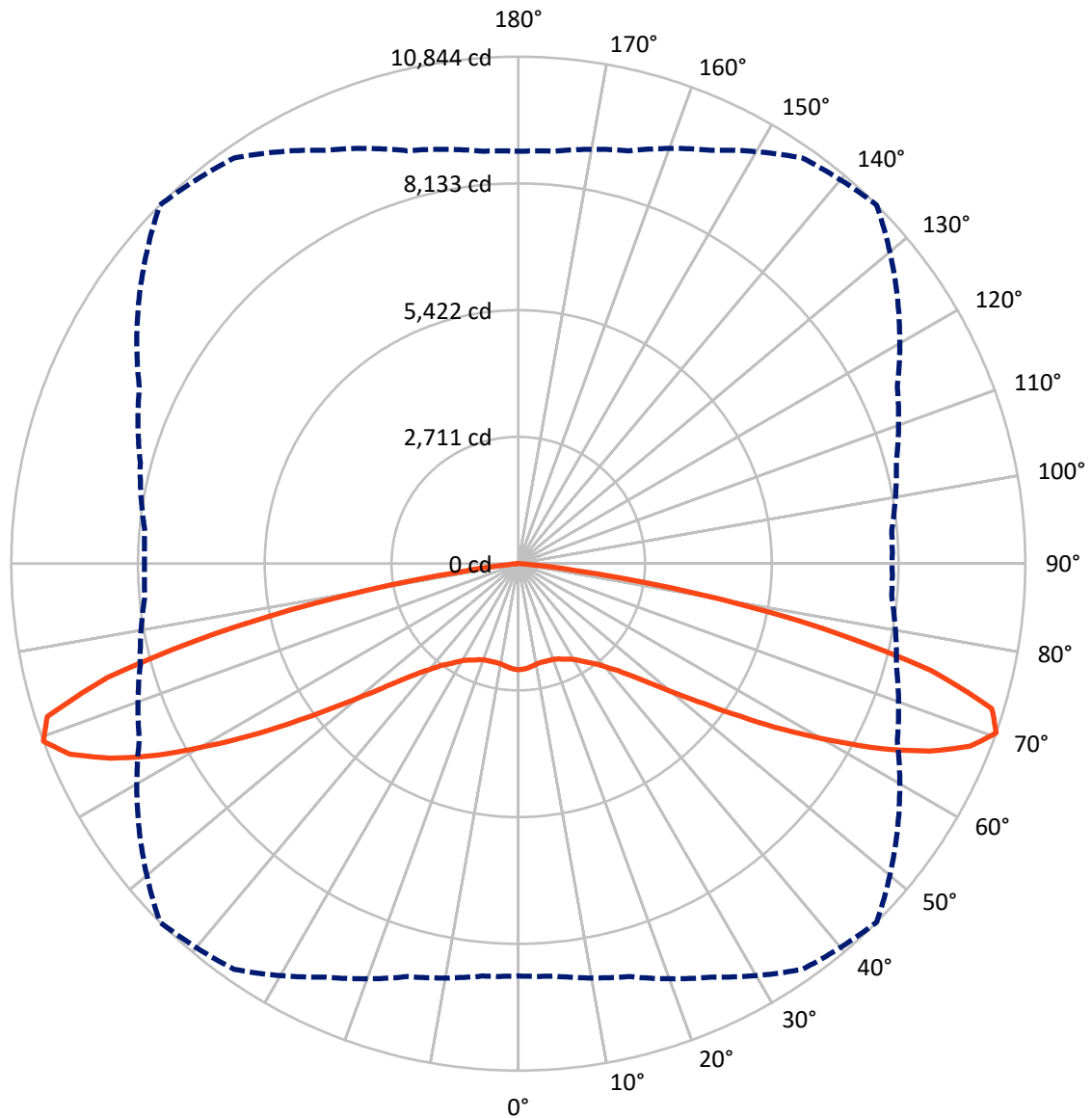
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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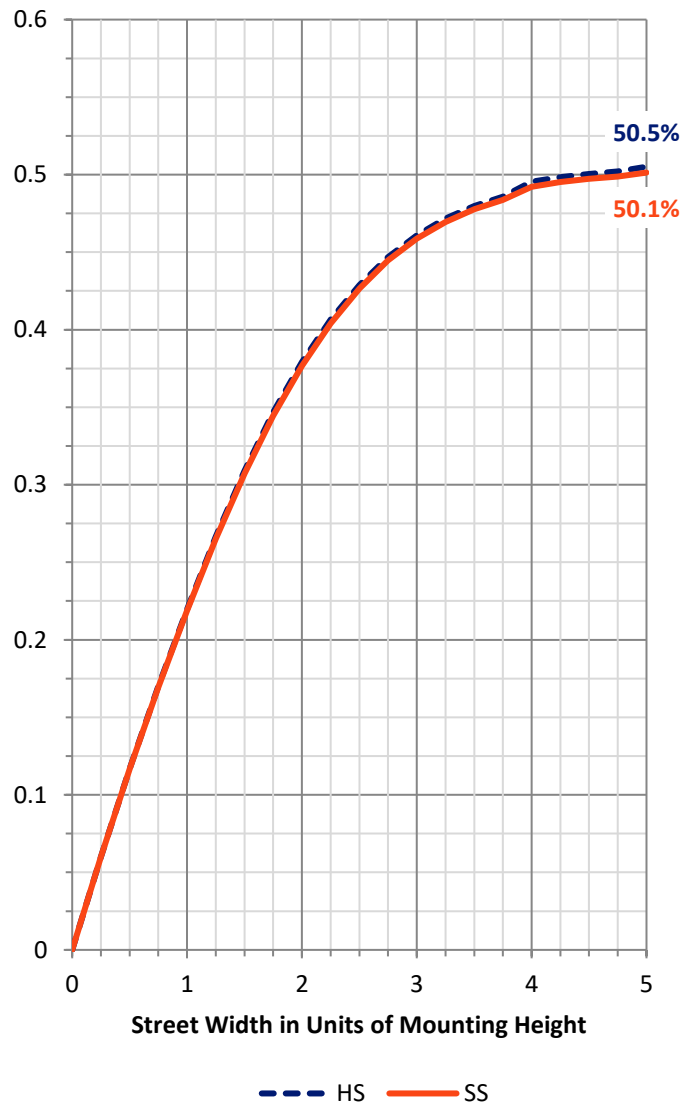
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13393.0	0.0	13393.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13393.0	0.0	13393.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26786.0	0.0	26786.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	0.8
10°-20°	620.9	2.3
20°-30°	1057.8	3.9
30°-40°	1639.6	6.1
40°-50°	2759.7	10.3
50°-60°	5021.1	18.7
60°-70°	8500.7	31.7
70°-80°	6579.9	24.6
80°-90°	394.3	1.5
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°	26786.0	100.0
0°-180°	26786.0	100.0



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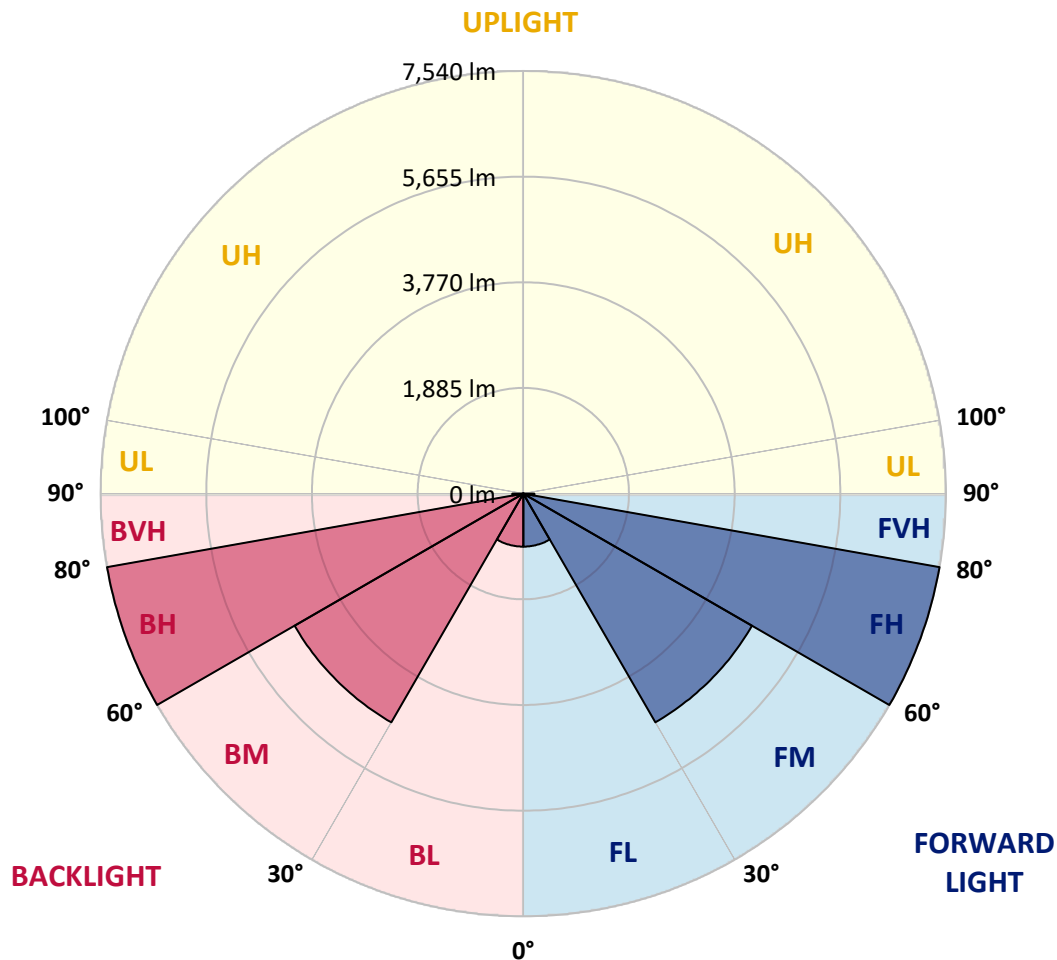
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	945.4	3.5			
FM (30°-60°)	4710.2	17.6			
FH (60°-80°)	7540.3	28.1			G4/12000
FVH (80°-90°)	197.1	0.7			G2/225
BL (0°-30°)	945.4	3.5	B2/1000		
BM (30°-60°)	4710.2	17.6	B3/5000		
BH (60°-80°)	7540.3	28.1	B5		G4/12000
BVH (80°-90°)	197.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8
2.5°	2262.1	2263.5	2263.5	2260.7	2259.3	2259.3	2257.9	2257.9	2262.1	2263.5	2264.9
5°	2242.3	2242.3	2242.3	2240.9	2238.1	2238.1	2235.2	2235.2	2236.6	2240.9	2238.1
7.5°	2215.4	2218.2	2218.2	2212.6	2208.3	2208.3	2206.9	2208.3	2209.8	2214.0	2212.6
10°	2206.9	2208.3	2201.3	2191.4	2184.3	2180.1	2181.5	2184.3	2191.4	2194.2	2195.6
12.5°	2212.6	2212.6	2199.9	2185.7	2173.0	2167.3	2165.9	2175.8	2188.5	2197.0	2199.9
15°	2219.7	2216.8	2201.3	2182.9	2170.1	2168.7	2167.3	2174.4	2192.8	2209.8	2211.2
17.5°	2223.9	2222.5	2202.7	2180.1	2173.0	2173.0	2171.6	2177.2	2197.0	2218.2	2219.7
20°	2238.1	2233.8	2211.2	2187.1	2181.5	2184.3	2180.1	2187.1	2208.3	2233.8	2239.5
22.5°	2266.3	2262.1	2239.5	2215.4	2212.6	2212.6	2211.2	2218.2	2240.9	2267.8	2272.0
25°	2300.3	2296.1	2274.8	2257.9	2260.7	2266.3	2263.5	2264.9	2283.3	2306.0	2313.0
27.5°	2345.6	2338.5	2320.1	2306.0	2314.4	2314.4	2314.4	2313.0	2324.4	2345.6	2352.6
30°	2400.7	2397.9	2378.1	2376.7	2383.8	2376.7	2376.7	2378.1	2379.5	2399.3	2406.4
32.5°	2472.9	2467.2	2457.3	2454.5	2474.3	2480.0	2460.2	2441.8	2451.7	2471.5	2475.7
35°	2591.7	2583.2	2569.1	2553.5	2569.1	2596.0	2553.5	2539.4	2564.8	2591.7	2594.6
37.5°	2753.0	2748.8	2726.1	2697.8	2696.4	2724.7	2680.9	2679.4	2727.5	2760.1	2764.3
40°	2955.3	2959.6	2931.3	2904.4	2890.2	2912.9	2878.9	2891.6	2938.3	2975.1	2972.3
42.5°	3239.7	3224.1	3180.2	3154.8	3139.2	3130.7	3122.2	3142.0	3194.4	3234.0	3265.1
45°	3572.1	3566.5	3511.3	3480.2	3446.2	3433.5	3430.6	3466.0	3529.7	3577.8	3582.0
47.5°	3948.4	3935.7	3900.3	3867.8	3855.1	3839.5	3825.3	3852.2	3915.9	3949.8	3959.7
50°	4336.1	4338.9	4338.9	4333.2	4346.0	4348.8	4310.6	4320.5	4355.9	4353.0	4350.2
52.5°	4778.9	4794.4	4868.0	4875.1	4935.9	4976.9	4907.6	4866.6	4853.8	4777.4	4783.1
55°	5299.5	5313.6	5424.0	5534.3	5698.4	5767.7	5622.0	5494.7	5404.2	5288.1	5293.8
57.5°	5948.8	5955.9	6060.6	6272.8	6533.1	6695.8	6439.7	6187.9	6004.0	5893.6	5849.8
60°	6647.7	6654.7	6807.5	7066.4	7471.0	7669.1	7352.2	6940.5	6708.5	6540.2	6551.5
62.5°	7486.6	7514.9	7652.1	8008.6	8499.5	8721.6	8301.5	7751.1	7437.1	7227.7	7236.2
65°	8384.9	8433.0	8583.0	8974.9	9427.6	9666.6	9151.7	8516.5	8126.0	7870.0	7896.9
67.5°	8967.8	9010.2	9226.7	9659.6	10224.0	10422.1	9757.2	9017.3	8529.2	8223.6	8167.1
70°	8819.2	8854.6	9143.2	9757.2	10593.3	10843.7	9901.5	8943.7	8369.4	8017.1	7994.5
72.5°	7785.1	7711.5	8133.1	9014.5	10171.7	10591.9	9447.4	8168.5	7445.6	7083.4	7041.0
75°	5159.4	5319.3	5941.7	6980.1	8605.6	9126.2	8063.8	6558.5	5648.9	5347.6	5300.9
77.5°	1724.5	1847.6	2400.7	3956.9	5866.8	6649.1	5875.2	4289.4	3034.5	2444.6	2455.9
80°	456.9	451.3	584.3	1087.9	2535.1	3850.8	2951.1	1452.9	795.1	575.8	546.1
82.5°	164.1	183.9	236.3	301.3	672.0	1196.8	844.6	407.4	298.5	220.7	213.6
85°	72.1	70.7	101.9	120.2	168.3	223.5	198.1	172.6	151.4	100.4	93.4
87.5°	15.6	15.6	24.0	18.4	29.7	29.7	36.8	43.9	45.3	29.7	24.0
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)