

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: P453501

Luminaire Tested: **GALN-SA4C-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28694 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

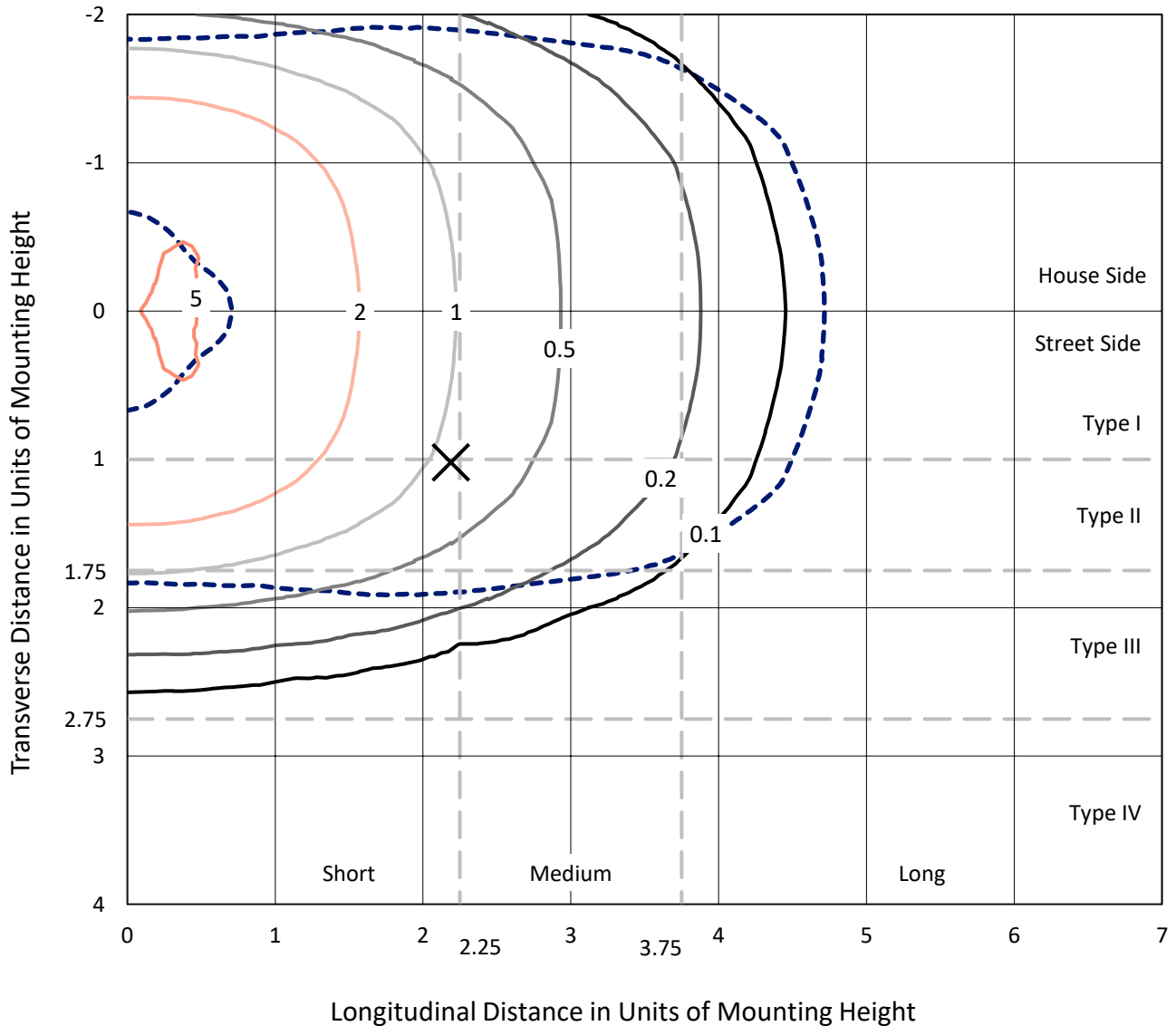
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

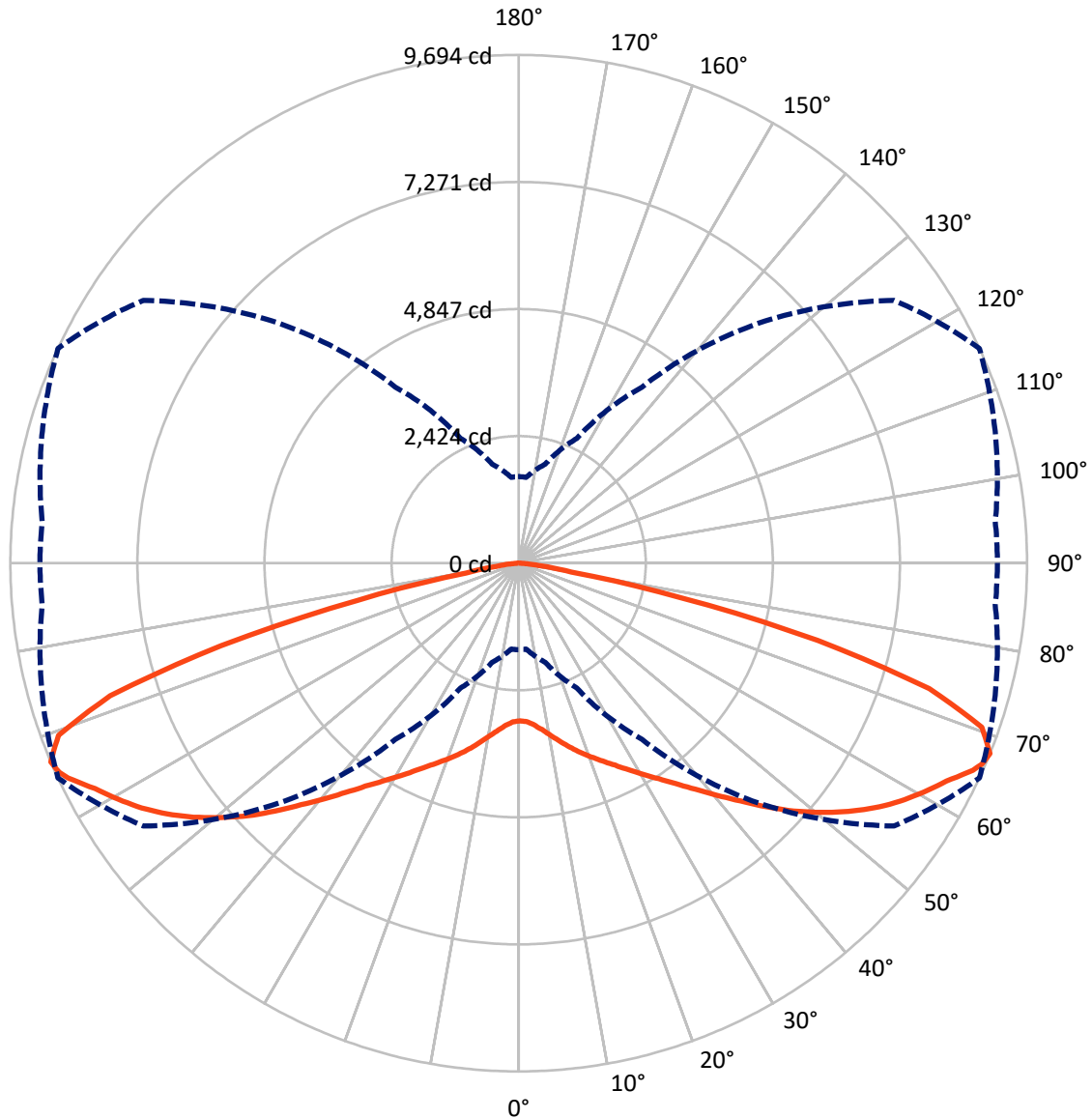
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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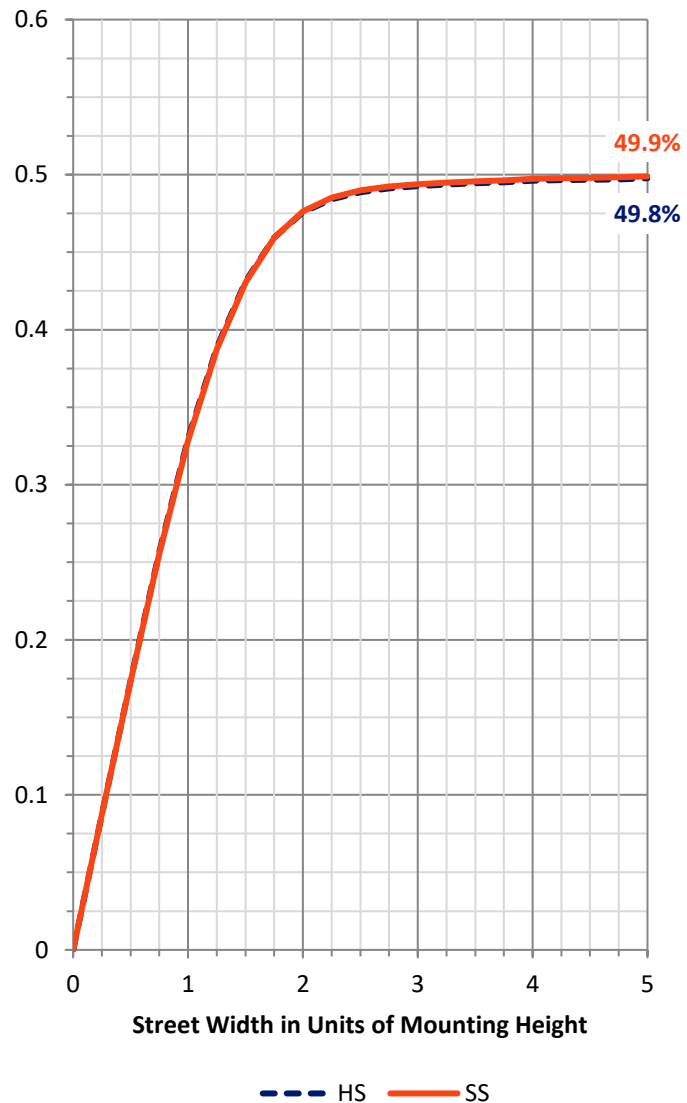
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14347.0	0.0	14347.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14347.0	0.0	14347.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28694.0	0.0	28694.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.4	1.0
10°-20°	992.1	3.5
20°-30°	1940.6	6.8
30°-40°	3300.7	11.5
40°-50°	5224.0	18.2
50°-60°	6926.9	24.1
60°-70°	6534.2	22.8
70°-80°	3230.2	11.3
80°-90°	248.9	0.9
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°	28694.0	100.0
0°-180°	28694.0	100.0



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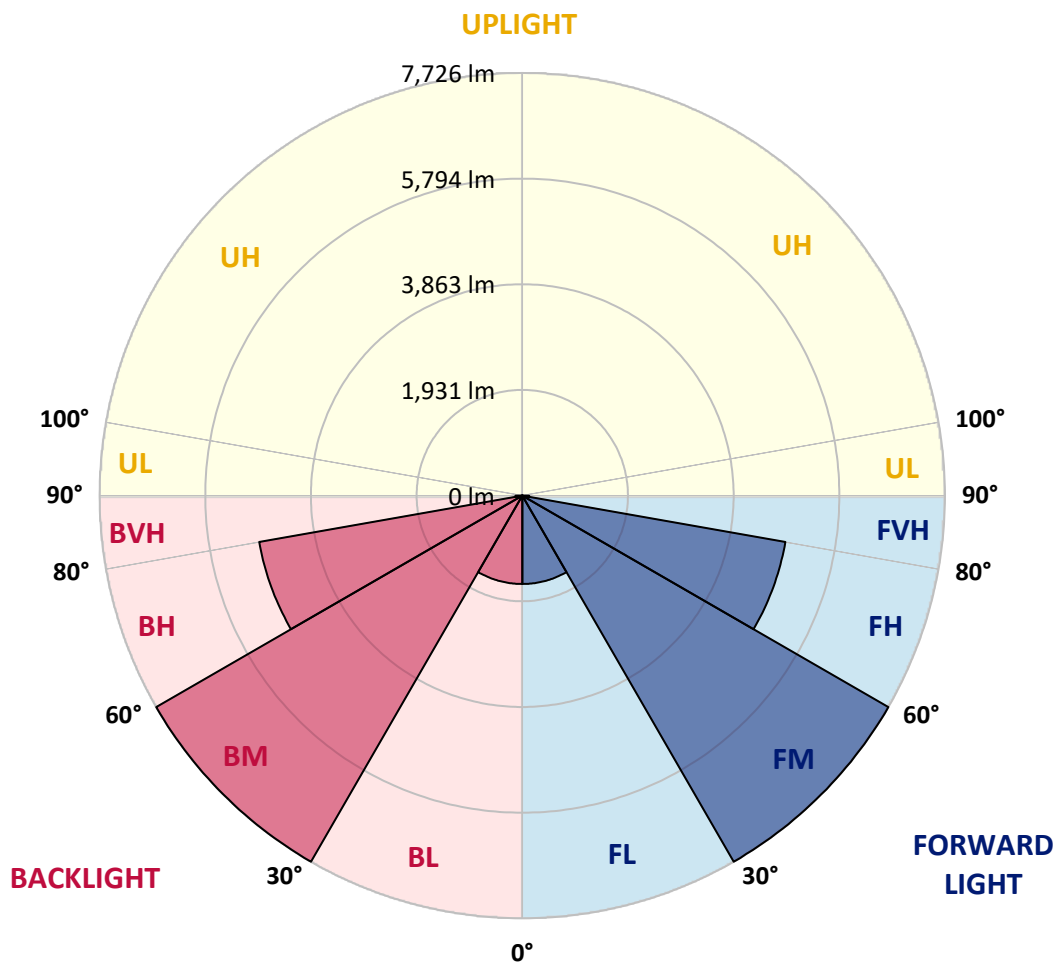
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1614.5	5.6			
FM (30°-60°)	7725.8	26.9			
FH (60°-80°)	4882.2	17.0			G2/5000
FVH (80°-90°)	124.5	0.4			G2/225
BL (0°-30°)	1614.5	5.6	B3/2500		
BM (30°-60°)	7725.8	26.9	B4/8500		
BH (60°-80°)	4882.2	17.0	B4/5000		G4/5000
BVH (80°-90°)	124.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4	3005.4
2.5°	2990.1	2993.1	2996.2	3000.8	3007.0	3016.2	3022.4	3027.0	3039.3	3040.8	3039.3
5°	2979.3	2982.4	2990.1	3003.9	3023.9	3051.6	3073.1	3099.2	3119.2	3133.0	3130.0
7.5°	2977.8	2983.9	2996.2	3025.4	3063.9	3111.5	3160.7	3205.3	3243.7	3274.5	3269.9
10°	3002.4	3010.1	3030.0	3073.1	3133.0	3202.2	3271.4	3337.5	3392.8	3432.8	3446.7
12.5°	3043.9	3050.0	3086.9	3151.5	3237.6	3323.7	3402.1	3483.5	3560.4	3628.1	3628.1
15°	3116.1	3126.9	3173.0	3266.8	3372.9	3472.8	3552.7	3638.8	3721.8	3798.7	3821.8
17.5°	3216.1	3231.4	3300.6	3420.5	3555.8	3648.0	3723.4	3794.1	3866.3	3940.1	3950.9
20°	3352.9	3368.2	3460.5	3605.0	3764.9	3875.6	3926.3	3943.2	3978.6	4049.3	4058.5
22.5°	3538.9	3554.3	3657.3	3820.2	3998.5	4118.5	4140.0	4100.0	4090.8	4146.1	4152.3
25°	3749.5	3763.3	3881.7	4057.0	4241.4	4372.1	4366.0	4267.6	4212.2	4246.1	4255.3
27.5°	3986.2	4006.2	4126.1	4307.5	4507.4	4622.7	4604.2	4461.3	4342.9	4336.8	4339.8
30°	4289.1	4310.6	4424.4	4598.1	4794.9	4900.9	4862.5	4670.4	4487.4	4425.9	4425.9
32.5°	4608.9	4662.7	4778.0	4959.4	5113.1	5190.0	5131.5	4900.9	4658.1	4572.0	4567.4
35°	5025.5	5054.7	5168.4	5345.2	5460.5	5520.5	5408.3	5160.8	4881.0	4779.5	4765.7
37.5°	5432.9	5457.5	5589.7	5758.8	5898.7	5895.6	5743.4	5469.8	5157.7	5043.9	5034.7
40°	5849.5	5875.6	6026.3	6181.5	6321.4	6309.1	6124.6	5818.7	5486.7	5359.1	5383.7
42.5°	6210.7	6239.9	6410.6	6632.0	6758.0	6754.9	6541.3	6196.9	5851.0	5737.2	5758.8
45°	6539.7	6565.9	6764.2	7017.8	7202.3	7225.4	6991.7	6627.3	6272.2	6126.2	6132.3
47.5°	6771.9	6821.0	7028.6	7319.1	7569.7	7651.2	7422.1	7065.5	6656.6	6504.4	6513.6
50°	6948.6	6979.4	7205.4	7535.9	7852.6	8021.7	7837.2	7471.3	7040.9	6879.5	6901.0
52.5°	6970.2	7007.1	7253.0	7634.3	8040.1	8296.9	8206.2	7868.0	7432.9	7266.9	7313.0
55°	6794.9	6816.4	7110.1	7572.8	8113.9	8501.3	8524.4	8236.9	7806.5	7680.4	7711.2
57.5°	6295.3	6350.6	6722.7	7285.3	8012.5	8610.5	8762.7	8572.0	8184.6	8060.1	8109.3
60°	5475.9	5531.2	5904.8	6618.1	7629.7	8559.7	8959.4	8868.7	8527.5	8427.5	8453.7
62.5°	4290.6	4286.0	4748.8	5623.5	6868.7	8310.7	9105.5	9154.7	8865.7	8739.6	8779.6
65°	2781.0	2794.8	3242.2	4184.6	5720.3	7677.3	9137.8	9519.0	9197.7	9007.1	9036.3
66°	2236.8	2278.3	2658.0	3526.6	5134.6	7262.3	9040.9	9626.6	9299.2	9068.6	9082.4
67.5°	1651.1	1643.4	1955.5	2625.7	4100.0	6473.6	8738.1	9694.3	9414.5	9123.9	9130.1
70°	942.4	940.8	1051.5	1442.0	2410.5	4558.1	7365.3	9369.9	9648.2	9323.8	9306.9
72.5°	688.7	684.1	699.5	796.3	1176.0	2301.4	5080.8	8189.3	9528.3	9291.5	9243.9
75°	578.0	575.0	571.9	584.2	659.5	1042.3	2696.4	5891.0	8267.7	8721.2	8672.0
77.5°	472.0	472.0	473.5	470.4	473.5	548.8	1117.6	3157.6	5034.7	5620.4	5757.2
80°	369.0	367.4	393.6	382.8	358.2	352.0	495.0	1016.2	1671.1	1661.8	1371.3
82.5°	272.1	253.7	299.8	292.1	264.4	224.4	289.0	433.5	558.0	362.8	269.0
85°	172.2	170.6	212.1	193.7	161.4	106.1	138.4	186.0	230.6	139.9	113.8
87.5°	30.7	29.2	67.6	49.2	49.2	30.7	38.4	50.7	75.3	52.3	38.4
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)