

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: P452555

Luminaire Tested: **GALN-SA3C-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19080 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

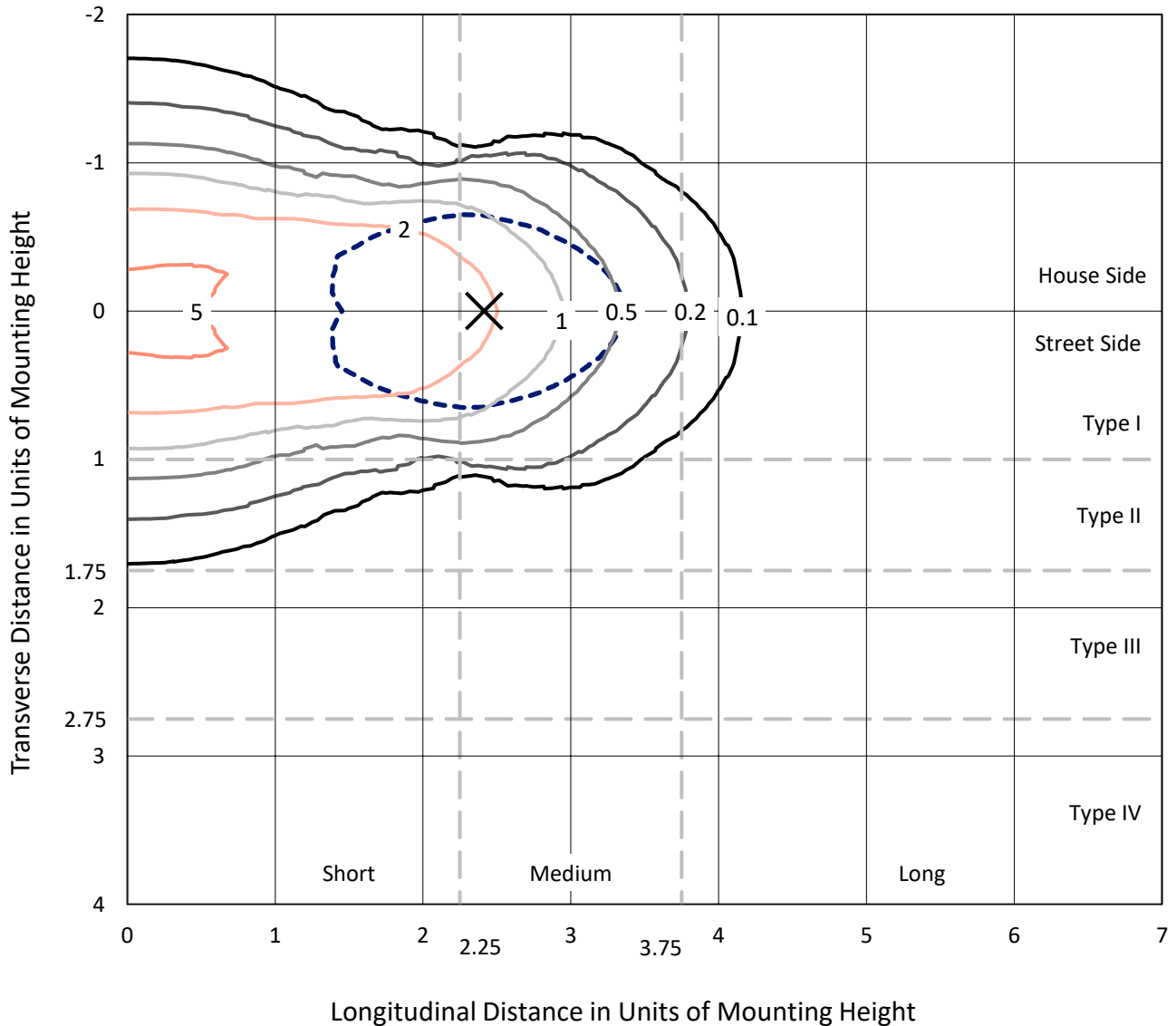
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

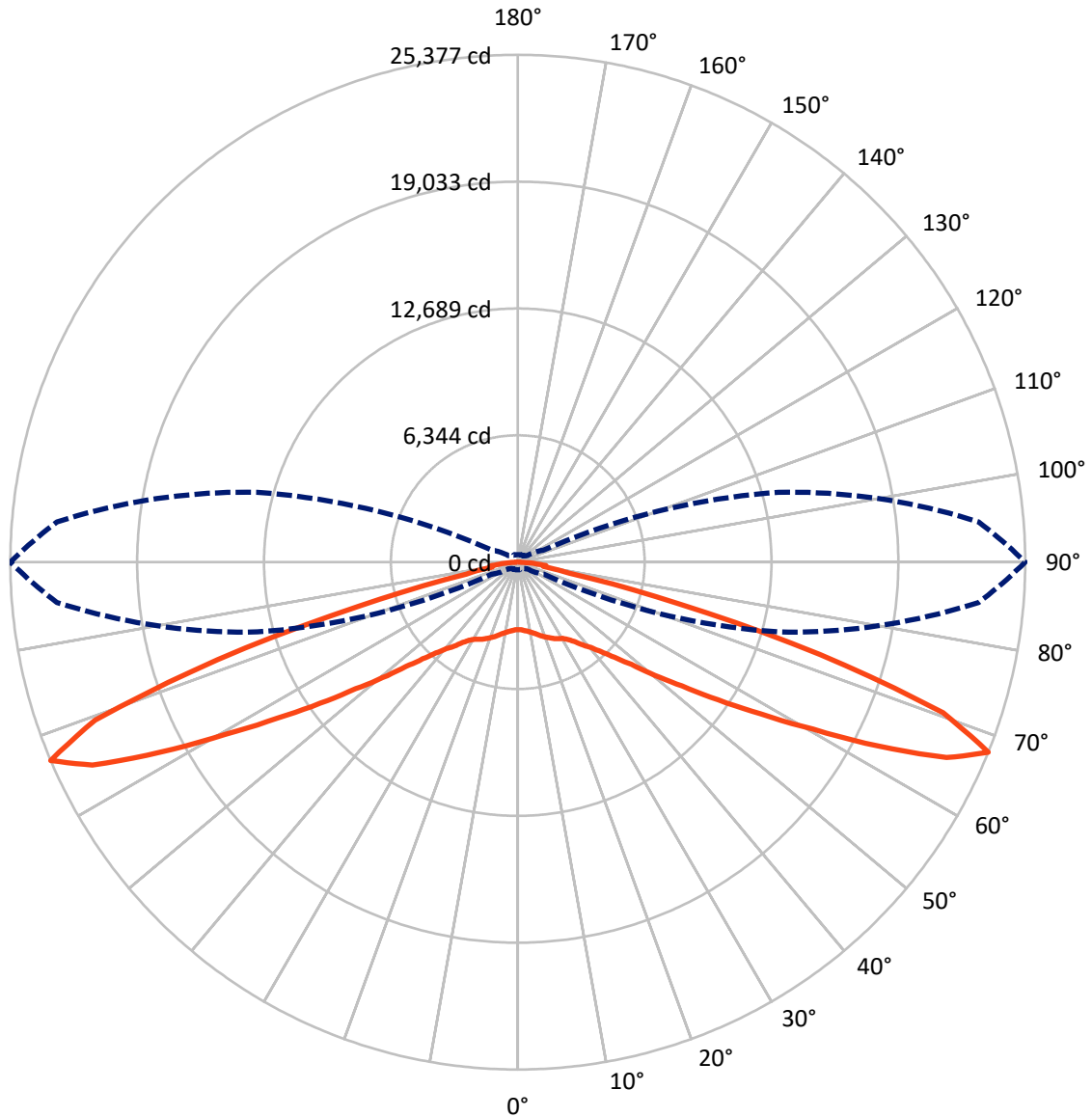
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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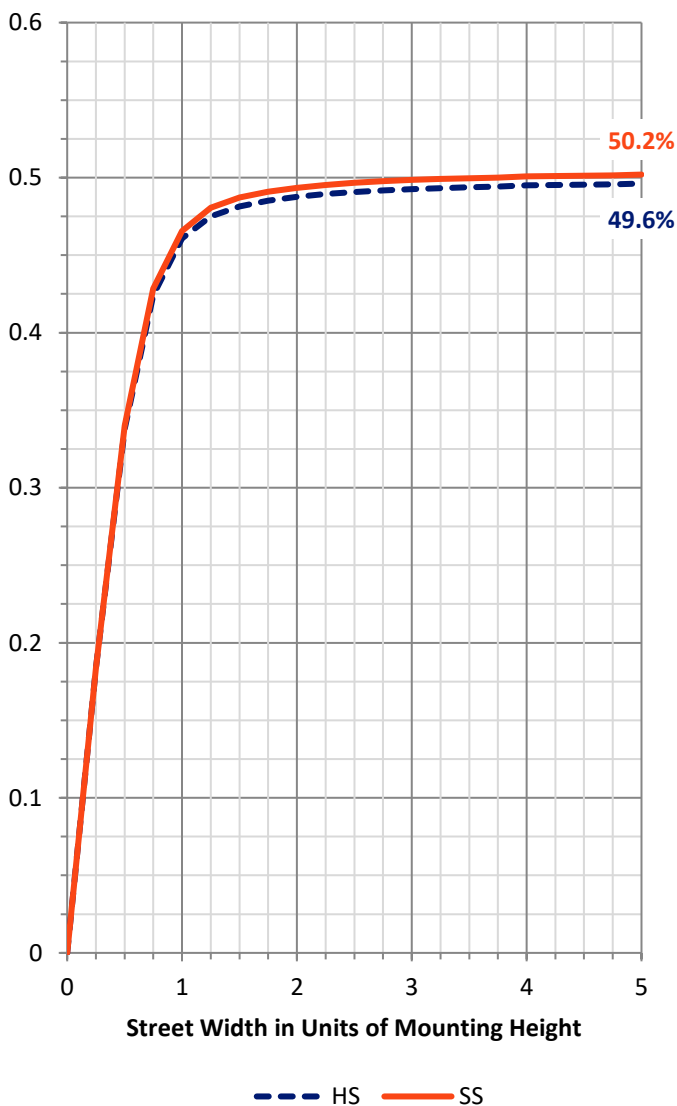
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9540.0	0.0	9540.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9540.0	0.0	9540.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19080.0	0.0	19080.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.8	1.8
10°-20°	1077.5	5.6
20°-30°	1803.4	9.5
30°-40°	2443.1	12.8
40°-50°	3094.6	16.2
50°-60°	3865.9	20.3
60°-70°	4544.2	23.8
70°-80°	1738.4	9.1
80°-90°	176.1	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°	19080.0	100.0
0°-180°	19080.0	100.0



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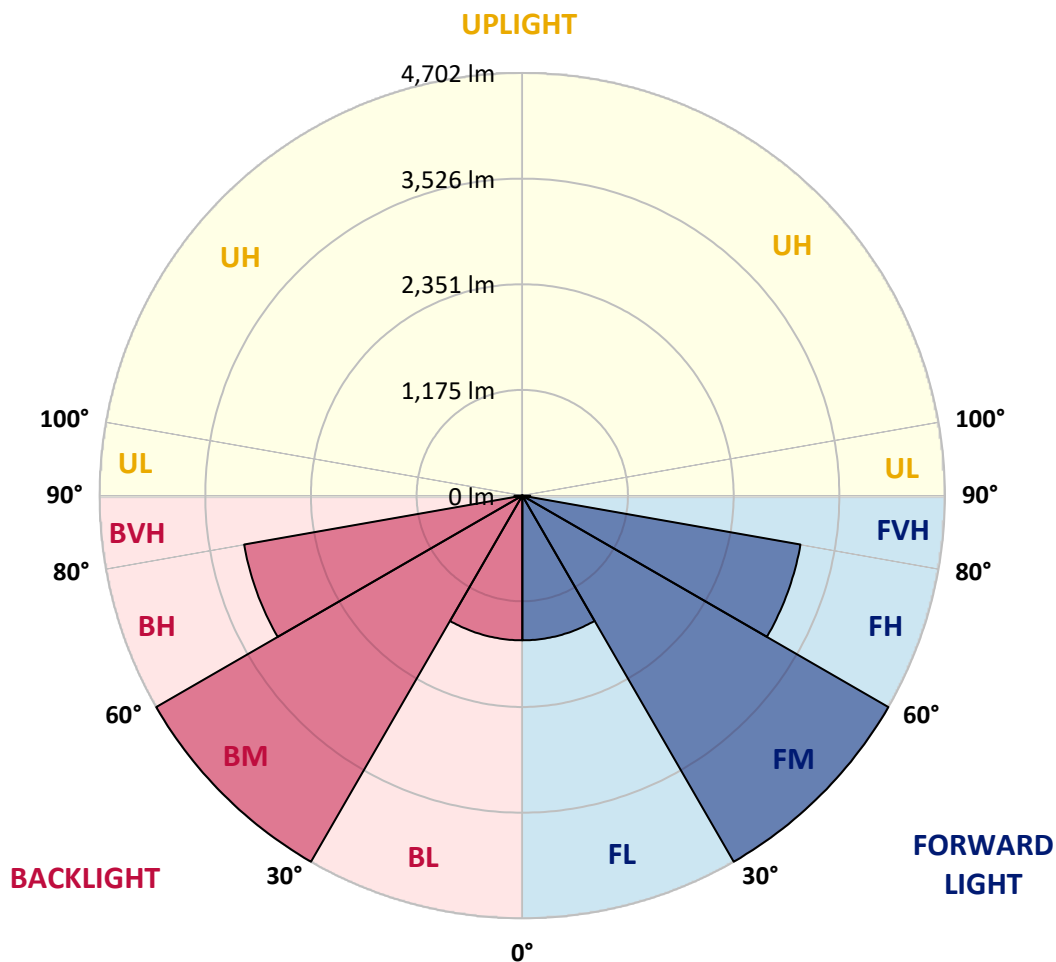
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1608.8	8.4			
FM (30°-60°)	4701.8	24.6			
FH (60°-80°)	3141.3	16.5			G2/5000
FVH (80°-90°)	88.1	0.5			G1/100
BL (0°-30°)	1608.8	8.4	B3/2500		
BM (30°-60°)	4701.8	24.6	B3/5000		
BH (60°-80°)	3141.3	16.5	B4/5000		G4/5000
BVH (80°-90°)	88.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8	3377.8
2.5°	3421.1	3419.0	3420.0	3419.0	3422.1	3420.0	3407.3	3396.8	3388.3	3389.4	3386.2
5°	3494.0	3495.0	3496.1	3490.8	3498.2	3494.0	3473.9	3457.0	3440.1	3433.8	3431.6
7.5°	3554.2	3559.5	3562.6	3567.9	3580.6	3580.6	3570.0	3545.7	3508.8	3487.6	3486.6
10°	3614.4	3618.6	3628.2	3645.1	3666.2	3686.3	3682.0	3649.3	3601.7	3565.8	3557.4
12.5°	3635.5	3640.8	3672.5	3721.1	3768.7	3807.8	3807.8	3781.4	3720.1	3665.1	3649.3
15°	3561.6	3571.1	3628.2	3731.7	3856.4	3941.9	3961.0	3924.0	3858.5	3774.0	3754.9
17.5°	3414.7	3438.0	3521.4	3674.6	3881.7	4059.2	4114.2	4096.2	4011.7	3903.9	3881.7
20°	3257.3	3282.7	3371.4	3574.3	3860.6	4127.9	4287.4	4291.7	4187.1	4030.7	3997.9
22.5°	3084.0	3103.1	3217.2	3454.9	3797.2	4143.7	4436.4	4509.3	4367.7	4157.5	4111.0
25°	2889.6	2910.8	3030.2	3286.9	3677.8	4125.8	4572.7	4733.3	4556.9	4292.7	4233.6
27.5°	2703.7	2712.1	2840.0	3100.9	3520.4	4079.3	4673.1	4939.3	4766.0	4404.7	4329.7
30°	2525.1	2545.2	2658.3	2916.0	3339.7	3988.4	4759.7	5173.9	4991.1	4522.0	4425.8
32.5°	2336.0	2360.3	2482.9	2743.8	3159.1	3852.1	4812.5	5430.6	5304.9	4712.2	4609.7
35°	2154.3	2170.1	2293.7	2547.3	2982.6	3693.7	4822.0	5720.1	5709.5	5000.6	4864.3
37.5°	1968.3	1991.6	2116.2	2359.3	2795.6	3525.7	4774.5	6027.6	6197.7	5401.0	5254.2
40°	1789.8	1809.9	1932.4	2177.5	2583.2	3320.7	4661.4	6308.6	6767.1	5813.1	5604.9
42.5°	1595.4	1600.7	1734.8	1984.2	2375.1	3083.0	4498.7	6559.0	7402.1	6365.6	6106.8
45°	1374.6	1388.3	1513.0	1758.1	2136.3	2816.7	4277.9	6766.1	8207.2	7131.6	6778.8
47.5°	1153.7	1165.4	1279.5	1521.4	1875.4	2511.4	3937.7	6947.8	9033.4	8104.7	7641.9
50°	938.2	944.5	1037.5	1252.0	1581.6	2190.2	3516.2	7005.9	9967.4	9482.4	8891.8
52.5°	741.7	751.2	822.0	990.0	1267.8	1810.9	3060.8	6862.2	11057.7	11115.8	10283.3
55°	601.2	604.3	657.2	780.8	991.0	1413.6	2511.4	6461.8	12230.5	13208.8	12147.0
57.5°	517.7	519.8	549.4	618.1	762.8	1066.0	1948.3	5704.3	13283.9	15661.1	14296.0
60°	470.2	471.2	488.1	528.3	604.3	817.8	1395.7	4635.0	14323.5	18390.1	16967.0
62.5°	440.6	440.6	452.2	474.4	511.4	627.6	1011.1	3343.9	15035.6	21159.3	20259.1
65°	412.1	412.1	420.5	436.4	456.4	513.5	747.0	2180.7	15017.6	23176.2	23570.3
67.5°	379.3	379.3	385.6	401.5	413.1	441.6	576.9	1428.4	13489.9	23131.9	25377.0
70°	340.2	340.2	348.7	362.4	371.9	389.9	455.4	977.3	9910.3	19750.9	22568.7
72.5°	301.1	302.2	307.5	321.2	328.6	339.1	378.2	684.6	6079.3	13448.7	15780.5
75°	257.8	259.9	265.2	278.9	285.3	289.5	319.1	488.1	3075.6	7251.0	8255.8
77.5°	208.1	212.4	215.5	230.3	234.6	240.9	263.1	352.9	1350.3	2605.4	2628.7
80°	152.1	157.4	166.9	180.7	183.8	188.1	200.7	250.4	611.7	1189.7	1292.1
82.5°	112.0	119.4	107.8	125.7	125.7	120.4	141.6	168.0	281.0	1178.0	1409.4
85°	61.3	62.3	56.0	64.4	68.7	67.6	75.0	82.4	136.3	786.1	810.4
87.5°	14.8	15.8	16.9	20.1	24.3	24.3	26.4	23.2	44.4	254.6	145.8
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)