

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: P454411

Luminaire Tested: **GALN-SA5C-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454411
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-SA5C-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 32008 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

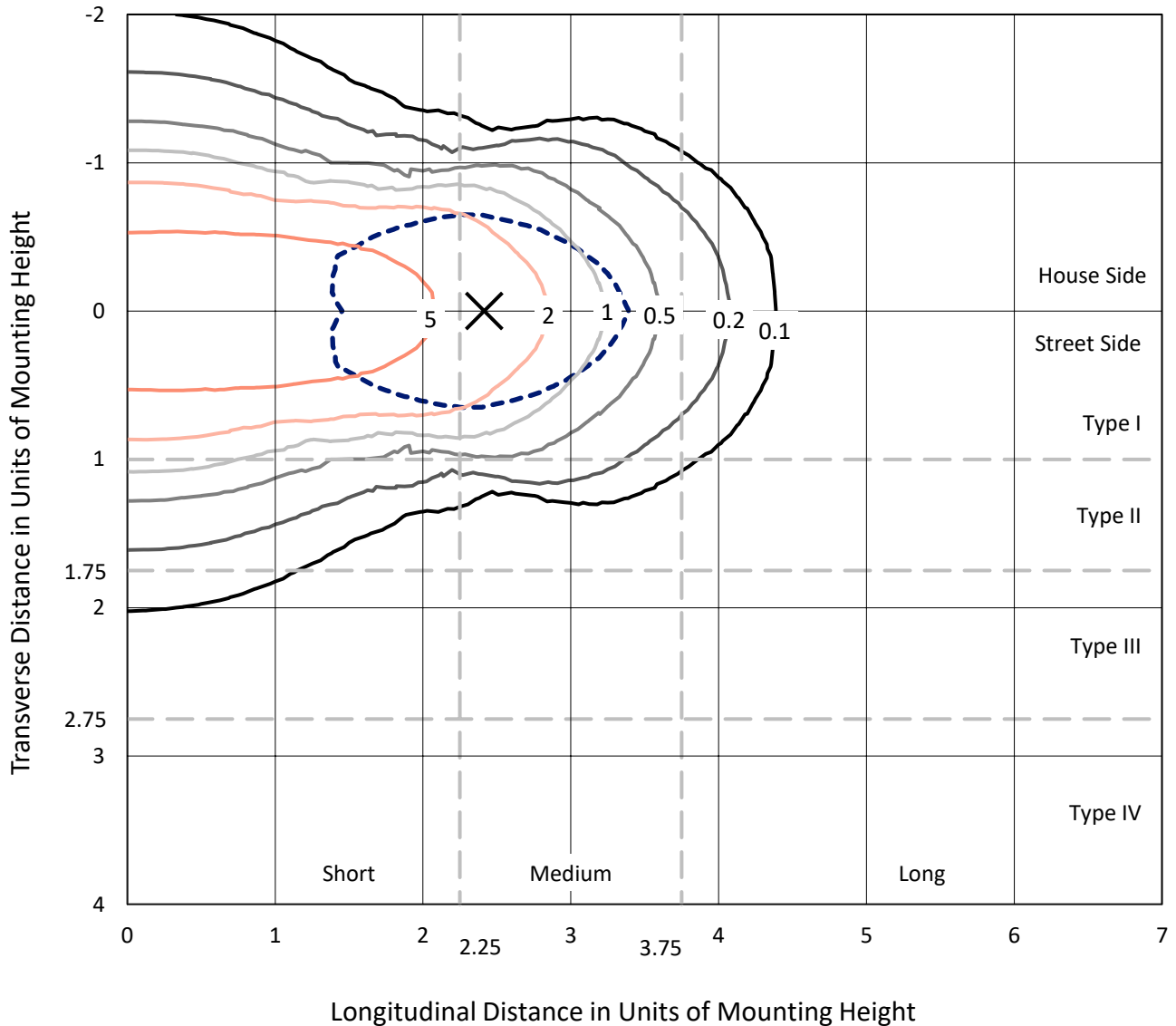
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

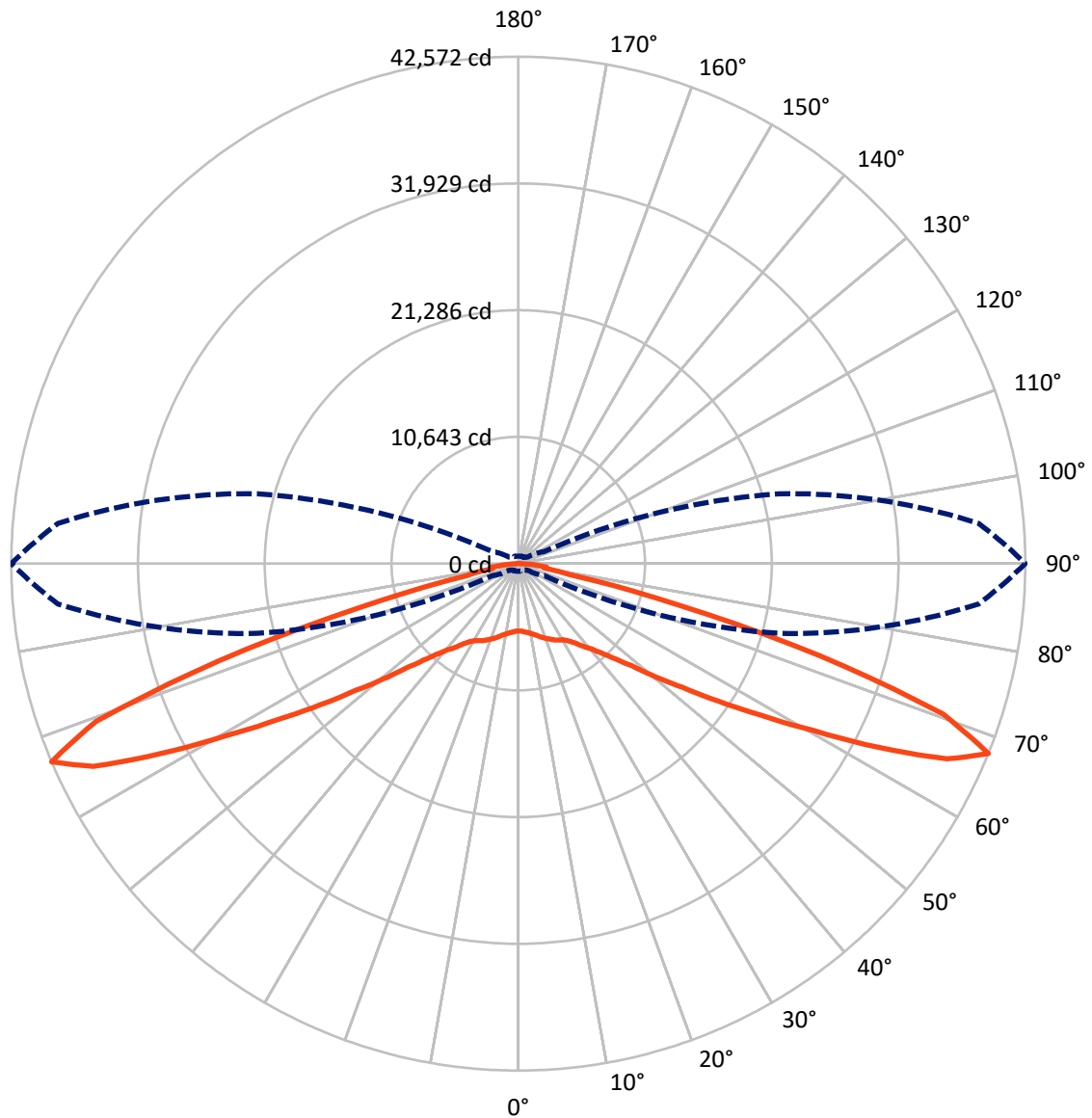
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	16004.0	0.0	16004.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16004.0	0.0	16004.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32008.0	0.0	32008.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.9	1.8
10°-20°	1807.5	5.6
20°-30°	3025.3	9.5
30°-40°	4098.5	12.8
40°-50°	5191.4	16.2
50°-60°	6485.4	20.3
60°-70°	7623.3	23.8
70°-80°	2916.3	9.1
80°-90°	295.4	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°	32008.0	100.0
0°-180°	32008.0	100.0

Coefficient of Utilization



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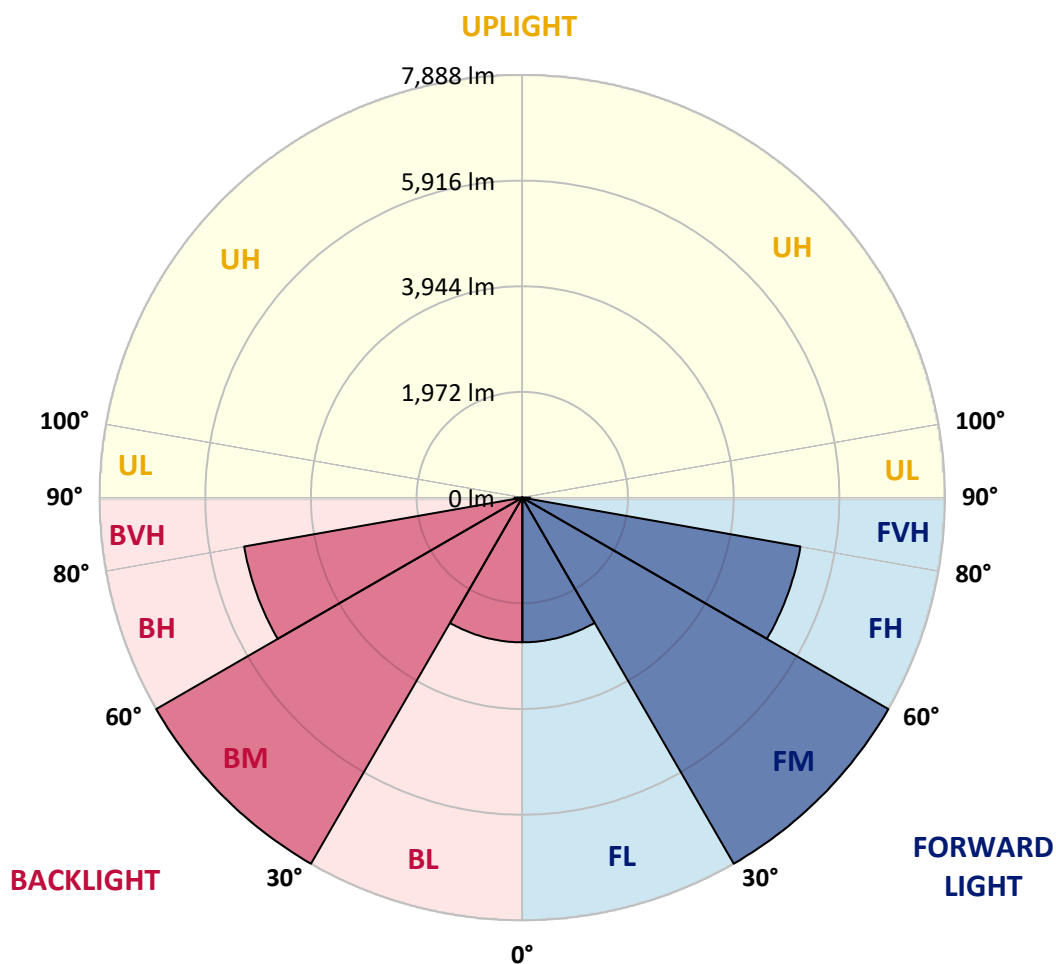
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2698.9	8.4			
FM (30°-60°)	7887.6	24.6			
FH (60°-80°)	5269.8	16.5			G3/7500
FVH (80°-90°)	147.7	0.5			G2/225
BL (0°-30°)	2698.9	8.4	B4/5000		
BM (30°-60°)	7887.6	24.6	B4/8500		
BH (60°-80°)	5269.8	16.5	B5		G5
BVH (80°-90°)	147.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5666.4	5666.4	5666.4	5666.4	5666.4	5666.4	5666.4	5666.4	5666.4	5666.4	5666.4
2.5°	5739.1	5735.5	5737.3	5735.5	5740.9	5737.3	5716.0	5698.3	5684.1	5685.9	5680.6
5°	5861.4	5863.2	5864.9	5856.1	5868.5	5861.4	5827.7	5799.3	5771.0	5760.4	5756.8
7.5°	5962.4	5971.3	5976.6	5985.4	6006.7	6006.7	5989.0	5948.2	5886.2	5850.7	5849.0
10°	6063.4	6070.5	6086.5	6114.8	6150.3	6184.0	6176.9	6121.9	6042.2	5981.9	5967.7
12.5°	6098.9	6107.7	6160.9	6242.4	6322.2	6387.8	6387.8	6343.5	6240.7	6148.5	6121.9
15°	5974.8	5990.8	6086.5	6260.2	6469.3	6612.9	6644.8	6582.8	6472.9	6331.1	6299.2
17.5°	5728.4	5767.4	5907.5	6164.5	6511.9	6809.6	6901.8	6871.7	6729.9	6549.1	6511.9
20°	5464.4	5506.9	5655.8	5996.1	6476.4	6924.8	7192.5	7199.6	7024.1	6761.8	6706.8
22.5°	5173.7	5205.6	5397.0	5795.8	6370.1	6951.4	7442.4	7564.7	7327.2	6974.5	6896.5
25°	4847.6	4883.0	5083.3	5514.0	6169.8	6921.3	7671.0	7940.4	7644.4	7201.3	7102.1
27.5°	4535.6	4549.8	4764.3	5202.0	5905.7	6843.3	7839.4	8286.0	7995.4	7389.2	7263.4
30°	4236.1	4269.7	4459.4	4891.9	5602.6	6690.9	7984.7	8679.5	8372.9	7585.9	7424.6
32.5°	3918.8	3959.6	4165.2	4603.0	5299.5	6462.2	8073.4	9110.2	8899.3	7905.0	7733.0
35°	3614.0	3640.5	3847.9	4273.3	5003.5	6196.4	8089.3	9595.9	9578.1	8388.8	8160.2
37.5°	3302.0	3341.0	3550.1	3957.8	4689.8	5914.6	8009.5	10111.6	10397.0	9060.6	8814.2
40°	3002.5	3036.1	3241.7	3652.9	4333.6	5570.7	7819.9	10583.1	11352.3	9751.8	9402.7
42.5°	2676.3	2685.2	2910.3	3328.6	3984.4	5171.9	7546.9	11003.2	12417.5	10678.8	10244.6
45°	2305.9	2329.0	2538.1	2949.3	3583.8	4725.3	7176.5	11350.5	13768.1	11963.8	11371.8
47.5°	1935.5	1955.0	2146.4	2552.3	3146.0	4213.0	6605.8	11655.4	15154.2	13596.2	12819.9
50°	1573.9	1584.5	1740.5	2100.3	2653.3	3674.2	5898.6	11752.9	16721.0	15907.4	14916.6
52.5°	1244.2	1260.2	1378.9	1660.8	2126.9	3037.9	5134.7	11511.8	18550.1	18647.6	17250.9
55°	1008.5	1013.8	1102.4	1309.8	1662.5	2371.5	4213.0	10840.1	20517.5	22158.7	20377.5
57.5°	868.5	872.0	921.7	1036.9	1279.7	1788.4	3268.3	9569.3	22284.6	26272.5	23982.6
60°	788.7	790.5	818.9	886.2	1013.8	1371.8	2341.4	7775.6	24028.6	30850.7	28463.2
62.5°	739.1	739.1	758.6	795.8	857.8	1052.8	1696.2	5609.7	25223.2	35496.2	33986.1
65°	691.2	691.2	705.4	732.0	765.7	861.4	1253.1	3658.3	25193.1	38879.7	39540.8
67.5°	636.3	636.3	646.9	673.5	693.0	740.9	967.7	2396.3	22630.2	38805.3	42571.6
70°	570.7	570.7	584.9	607.9	623.9	654.0	763.9	1639.5	16625.3	33133.5	37860.6
72.5°	505.1	506.9	515.8	538.8	551.2	568.9	634.5	1148.5	10198.5	22561.1	26472.8
75°	432.5	436.0	444.9	467.9	478.6	485.6	535.3	818.9	5159.5	12164.1	13849.7
77.5°	349.2	356.3	361.6	386.4	393.5	404.1	441.3	592.0	2265.1	4370.8	4409.8
80°	255.2	264.1	280.0	303.1	308.4	315.5	336.8	420.1	1026.2	1995.7	2167.7
82.5°	187.9	200.3	180.8	210.9	210.9	202.1	237.5	281.8	471.5	1976.2	2364.4
85°	102.8	104.6	93.9	108.1	115.2	113.4	125.8	138.2	228.6	1318.7	1359.4
87.5°	24.8	26.6	28.4	33.7	40.8	40.8	44.3	39.0	74.4	427.2	244.6
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)