

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: P454440

Luminaire Tested: **GALN-SA5C-740-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454440
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-740-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35146 lumens
Efficiency: N/A
Efficacy: 130.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

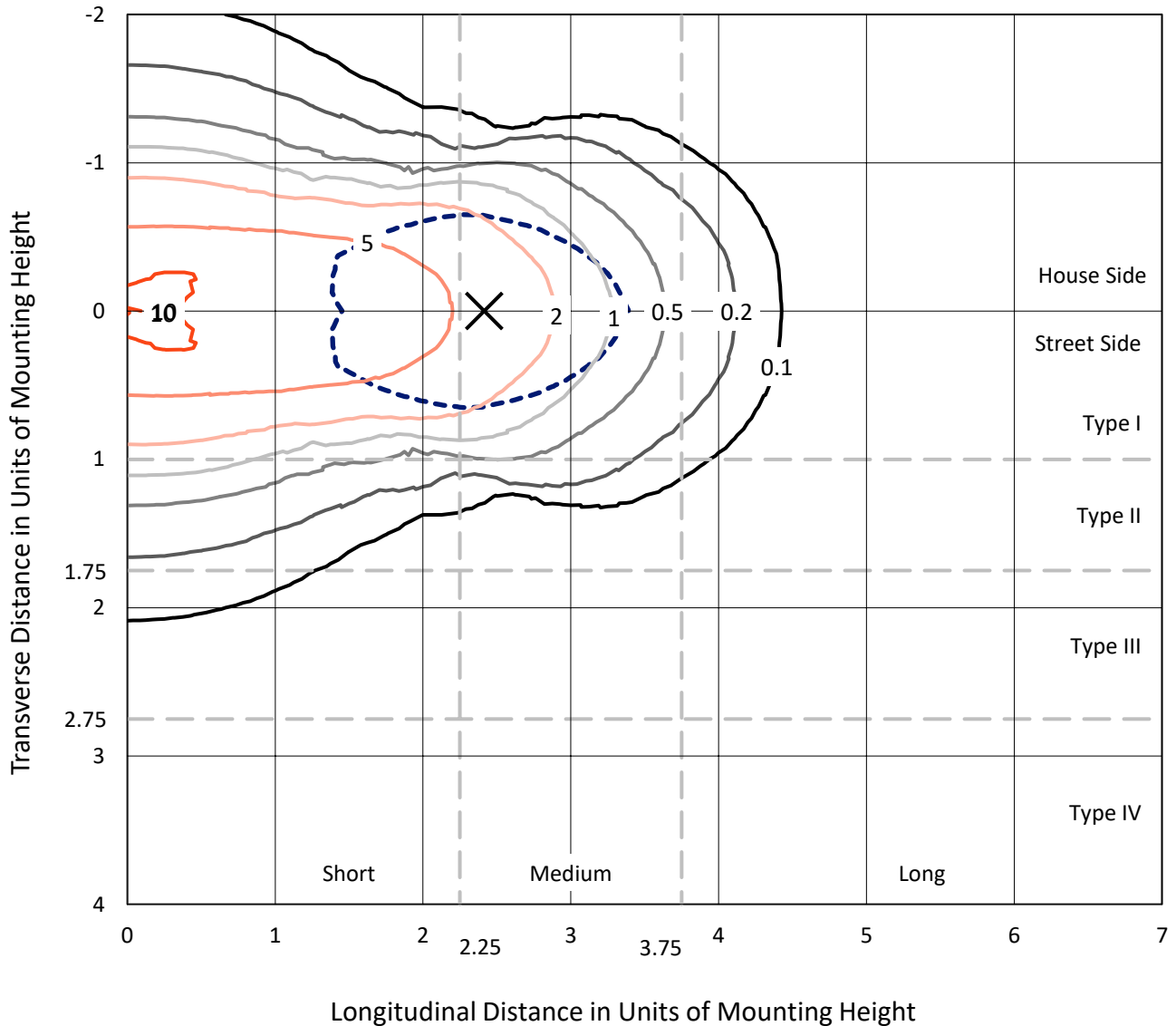
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

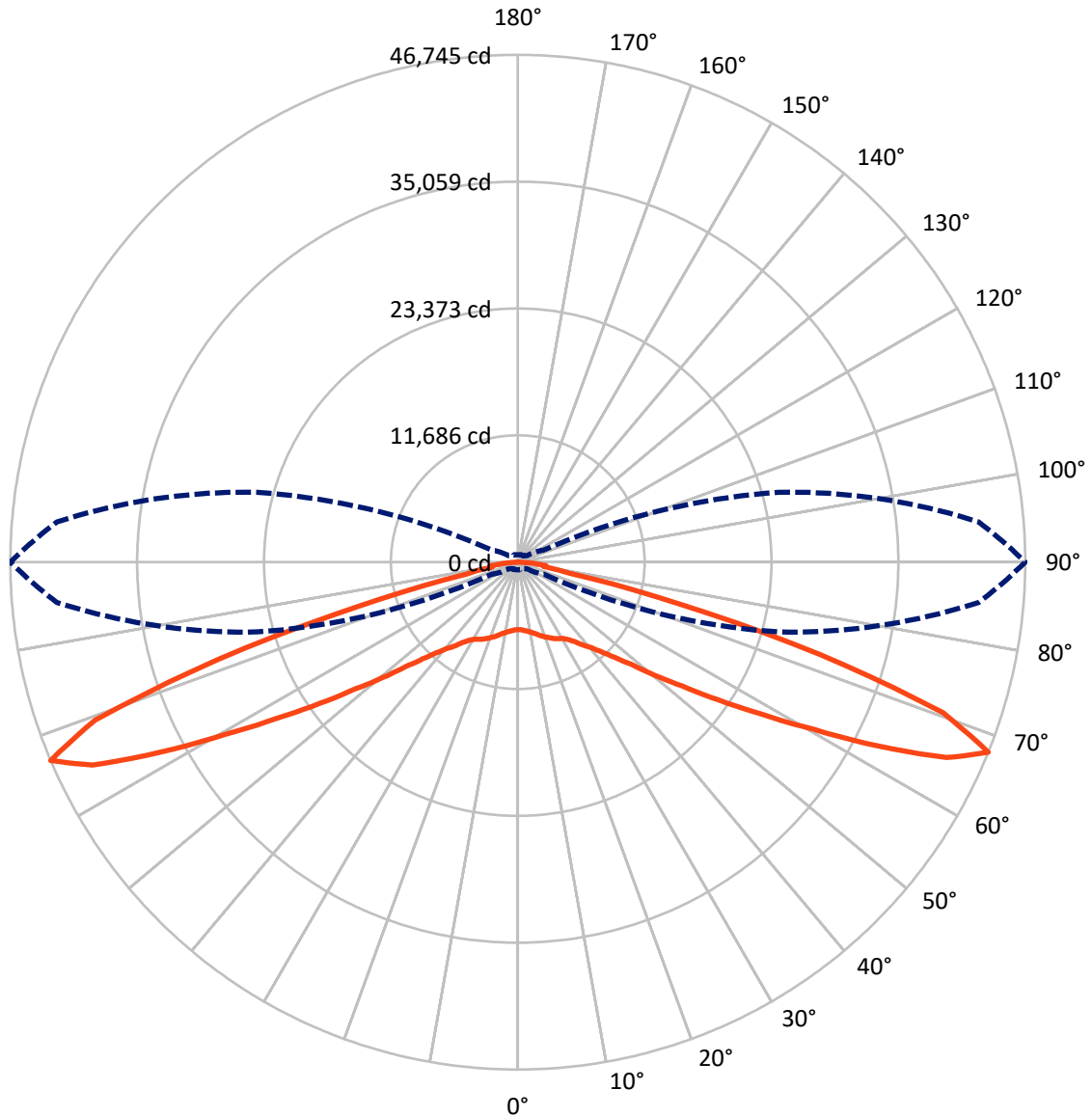
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	17573.0	0.0	17573.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17573.0	0.0	17573.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35146.0	0.0	35146.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.3	1.8
10°-20°	1984.7	5.6
20°-30°	3321.9	9.5
30°-40°	4500.3	12.8
40°-50°	5700.4	16.2
50°-60°	7121.2	20.3
60°-70°	8370.6	23.8
70°-80°	3202.1	9.1
80°-90°	324.4	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°	35146.0	100.0
0°-180°	35146.0	100.0



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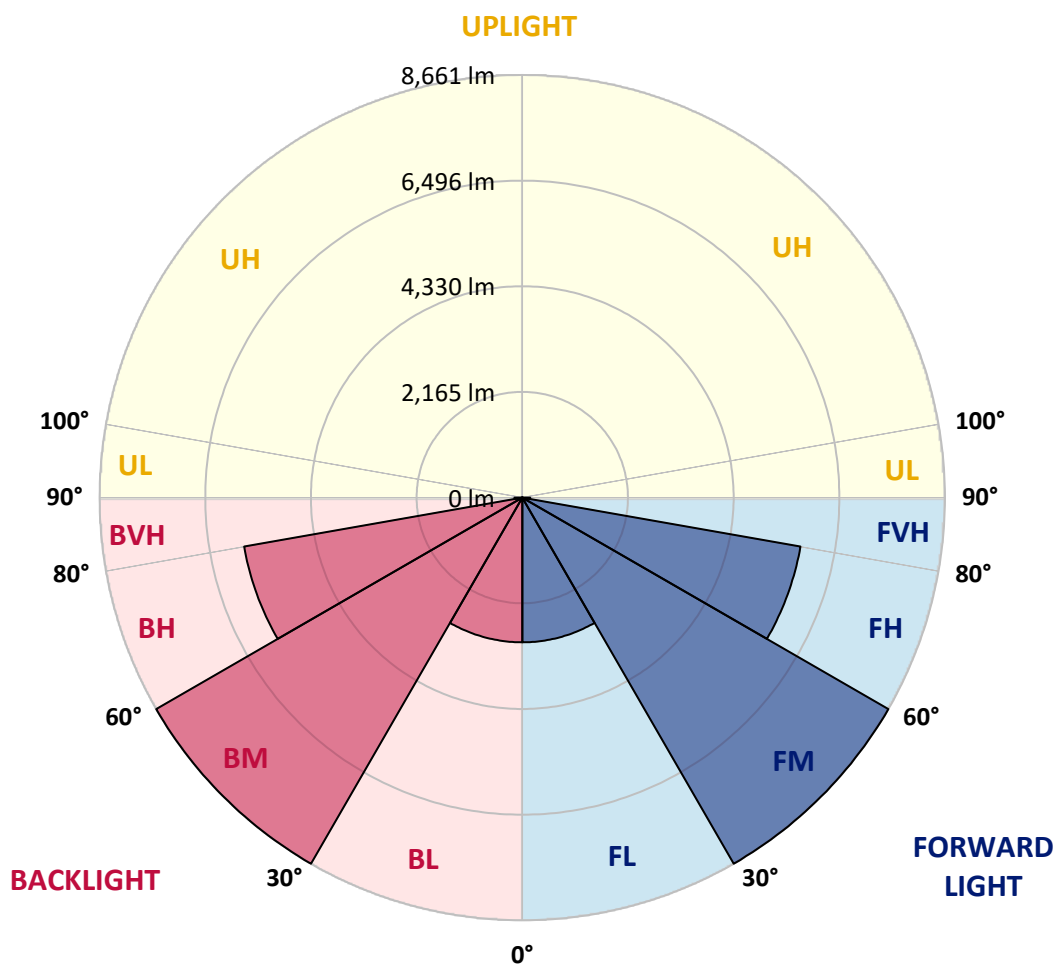
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2963.5	8.4			
FM (30°-60°)	8660.9	24.6			
FH (60°-80°)	5786.4	16.5			G3/7500
FVH (80°-90°)	162.2	0.5			G2/225
BL (0°-30°)	2963.5	8.4	B4/5000		
BM (30°-60°)	8660.9	24.6	B5		
BH (60°-80°)	5786.4	16.5	B5		G5
BVH (80°-90°)	162.2	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°	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9	6221.9
2.5°	6301.7	6297.8	6299.8	6297.8	6303.7	6299.8	6276.4	6257.0	6241.4	6243.3	6237.5
5°	6436.0	6438.0	6439.9	6430.2	6443.8	6436.0	6399.0	6367.9	6336.8	6325.1	6321.2
7.5°	6546.9	6556.7	6562.5	6572.2	6595.6	6595.6	6576.1	6531.4	6463.3	6424.3	6422.4
10°	6657.9	6665.7	6683.2	6714.3	6753.2	6790.2	6782.4	6722.1	6634.5	6568.4	6552.8
12.5°	6696.8	6706.5	6764.9	6854.4	6942.0	7014.0	7014.0	6965.4	6852.5	6751.3	6722.1
15°	6560.6	6578.1	6683.2	6873.9	7103.6	7261.2	7296.2	7228.1	7107.4	6951.8	6916.7
17.5°	6290.1	6332.9	6486.6	6768.8	7150.3	7477.2	7578.4	7545.3	7389.6	7191.1	7150.3
20°	6000.1	6046.8	6210.3	6583.9	7111.3	7603.7	7897.6	7905.4	7712.7	7424.7	7364.3
22.5°	5680.9	5715.9	5926.1	6364.0	6994.6	7632.9	8172.0	8306.3	8045.5	7658.2	7572.6
25°	5322.8	5361.7	5581.6	6054.6	6774.7	7599.8	8423.1	8718.9	8393.9	7907.3	7798.3
27.5°	4980.3	4995.8	5231.3	5712.0	6484.7	7514.2	8608.0	9098.4	8779.2	8113.6	7975.4
30°	4651.4	4688.3	4896.6	5371.5	6151.9	7346.8	8767.5	9530.4	9193.8	8329.6	8152.5
32.5°	4303.0	4347.8	4573.5	5054.2	5819.1	7095.8	8864.8	10003.4	9771.8	8680.0	8491.2
35°	3968.3	3997.5	4225.2	4692.2	5494.1	6803.8	8882.4	10536.6	10517.2	9211.3	8960.2
37.5°	3625.7	3668.5	3898.2	4345.8	5149.6	6494.4	8794.8	11103.0	11416.3	9948.9	9678.4
40°	3296.8	3333.8	3559.6	4011.1	4758.4	6116.8	8586.5	11620.6	12465.3	10707.9	10324.5
42.5°	2938.7	2948.5	3195.6	3654.9	4375.0	5679.0	8286.8	12081.9	13634.9	11725.7	11248.9
45°	2532.0	2557.3	2786.9	3238.4	3935.2	5188.5	7880.1	12463.3	15117.9	13136.7	12486.7
47.5°	2125.2	2146.6	2356.8	2802.5	3454.5	4626.1	7253.4	12798.1	16639.8	14929.1	14076.7
50°	1728.2	1739.9	1911.1	2306.2	2913.4	4034.4	6476.9	12905.1	18360.3	17467.0	16379.0
52.5°	1366.2	1383.7	1514.1	1823.6	2335.4	3335.8	5638.1	12640.4	20368.7	20475.8	18942.2
55°	1107.4	1113.2	1210.5	1438.2	1825.5	2604.0	4626.1	11902.8	22529.0	24331.1	22375.2
57.5°	953.6	957.5	1012.0	1138.5	1405.1	1963.7	3588.8	10507.4	24469.3	28848.2	26333.8
60°	866.0	868.0	899.1	973.1	1113.2	1506.3	2570.9	8537.9	26384.4	33875.2	31253.7
62.5°	811.6	811.6	833.0	873.8	942.0	1156.0	1862.5	6159.7	27696.1	38976.1	37318.0
65°	759.0	759.0	774.6	803.8	840.7	945.8	1375.9	4016.9	27663.0	42691.4	43417.3
67.5°	698.7	698.7	710.4	739.5	761.0	813.5	1062.6	2631.2	24848.8	42609.7	46745.3
70°	626.7	626.7	642.2	667.5	685.1	718.1	838.8	1800.2	18255.2	36381.9	41572.3
72.5°	554.7	556.6	566.3	591.6	605.3	624.7	696.7	1261.1	11198.3	24772.9	29068.1
75°	474.9	478.8	488.5	513.8	525.5	533.3	587.7	899.1	5665.3	13356.6	15207.4
77.5°	383.4	391.2	397.0	424.3	432.1	443.7	484.6	650.0	2487.2	4799.3	4842.1
80°	280.2	290.0	307.5	332.8	338.6	346.4	369.8	461.2	1126.8	2191.4	2380.2
82.5°	206.3	219.9	198.5	231.6	231.6	221.9	260.8	309.4	517.7	2170.0	2596.2
85°	112.9	114.8	103.1	118.7	126.5	124.6	138.2	151.8	251.1	1448.0	1492.7
87.5°	27.2	29.2	31.1	37.0	44.8	44.8	48.7	42.8	81.7	469.0	268.6
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)