

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: P456760

Luminaire Tested: **GALN-SA8A-740-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456760
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-SA8A-740-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36863 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

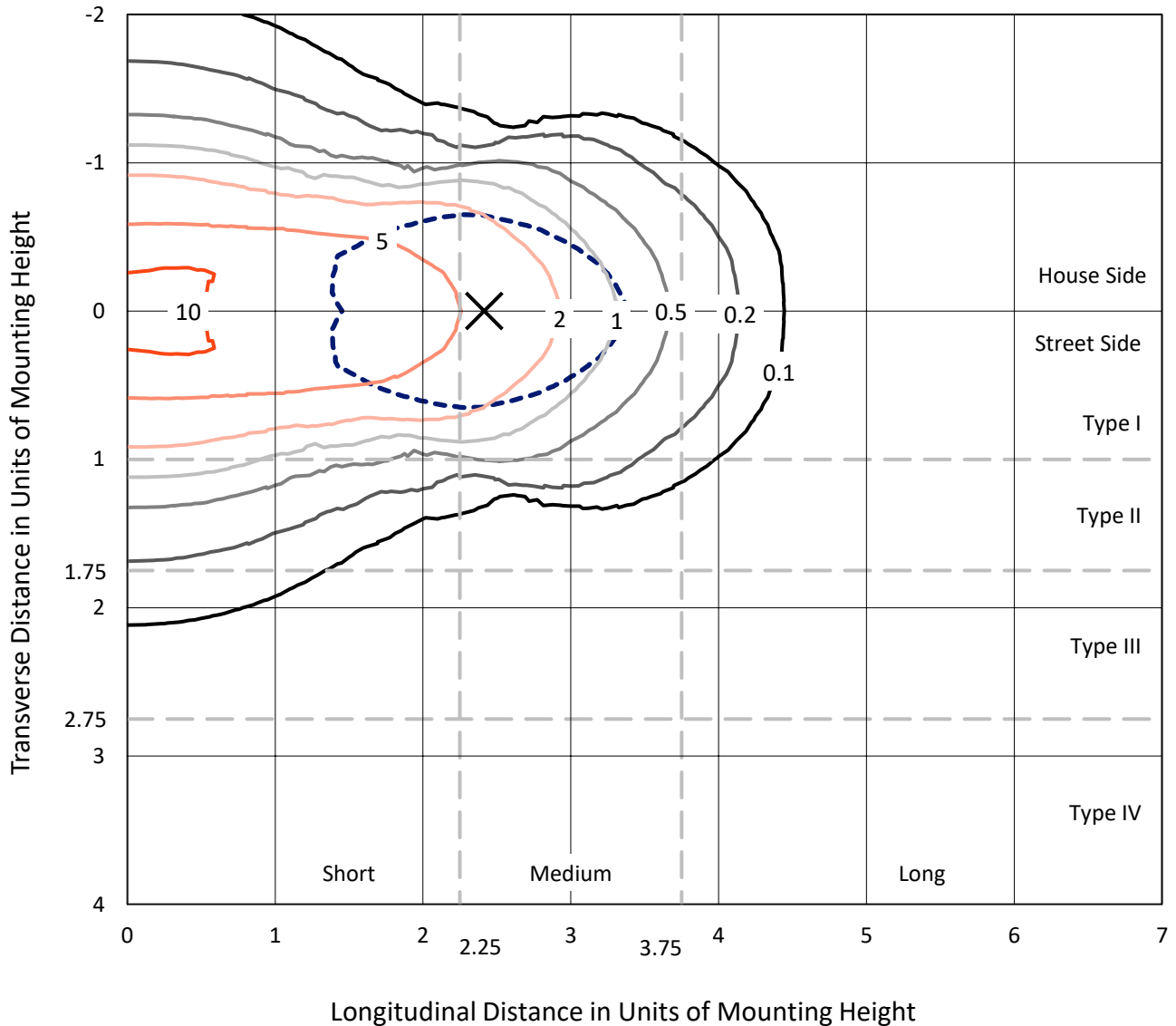
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

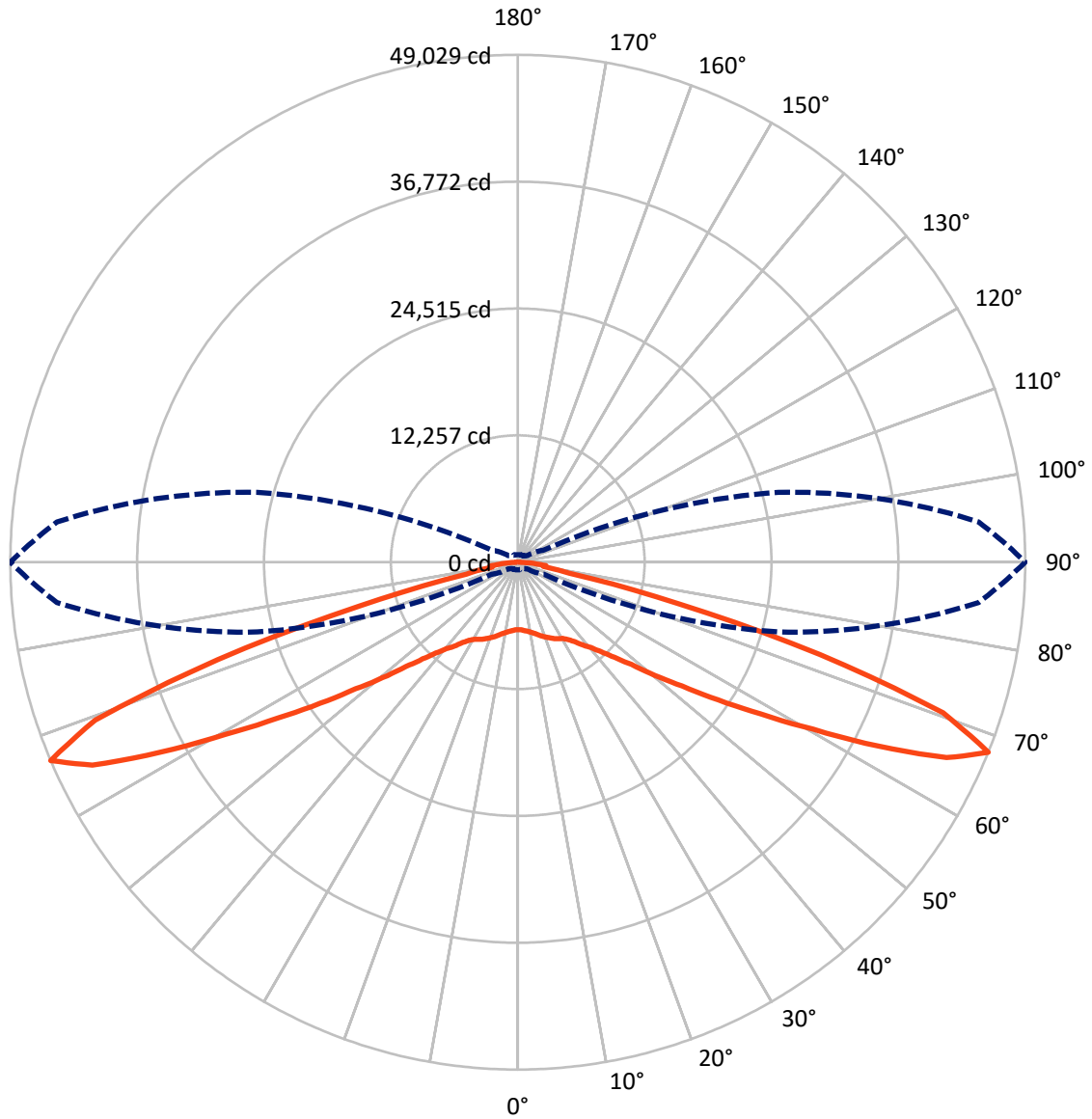
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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	18431.5	0.0	18431.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18431.5	0.0	18431.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36863.0	0.0	36863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.6	1.8
10°-20°	2081.7	5.6
20°-30°	3484.2	9.5
30°-40°	4720.2	12.8
40°-50°	5978.8	16.2
50°-60°	7469.1	20.3
60°-70°	8779.6	23.8
70°-80°	3358.6	9.1
80°-90°	340.3	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°	36863.0	100.0
0°-180°	36863.0	100.0

Coefficient of Utilization



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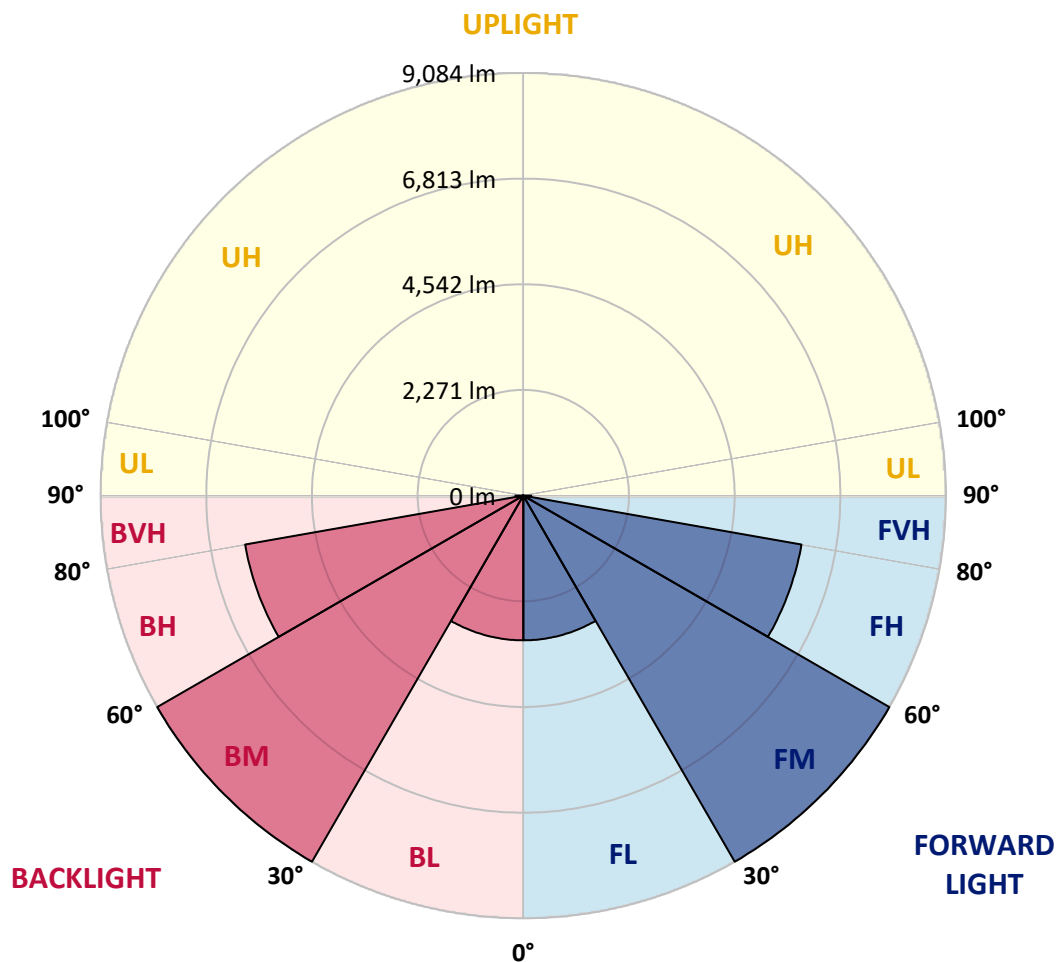
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3108.2	8.4			
FM	(30°-60°)	9084.0	24.6			
FH	(60°-80°)	6069.1	16.5			G3/7500
FVH	(80°-90°)	170.1	0.5			G2/225
BL	(0°-30°)	3108.2	8.4	B4/5000		
BM	(30°-60°)	9084.0	24.6	B5		
BH	(60°-80°)	6069.1	16.5	B5		G5
BVH	(80°-90°)	170.1	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°	6525.9	6525.9	6525.9	6525.9	6525.9	6525.9	6525.9	6525.9	6525.9	6525.9	6525.9
2.5°	6609.6	6605.5	6607.5	6605.5	6611.6	6607.5	6583.1	6562.6	6546.3	6548.4	6542.2
5°	6750.4	6752.5	6754.5	6744.3	6758.6	6750.4	6711.7	6679.0	6646.3	6634.1	6630.0
7.5°	6866.8	6877.0	6883.1	6893.3	6917.8	6917.8	6897.4	6850.5	6779.0	6738.2	6736.1
10°	6983.1	6991.3	7009.7	7042.3	7083.2	7121.9	7113.8	7050.5	6958.6	6889.2	6872.9
12.5°	7024.0	7034.2	7095.4	7189.3	7281.2	7356.7	7356.7	7305.7	7187.3	7081.1	7050.5
15°	6881.1	6899.4	7009.7	7209.7	7450.6	7615.9	7652.7	7581.2	7454.7	7291.4	7254.6
17.5°	6597.3	6642.3	6803.5	7099.5	7499.6	7842.5	7948.7	7914.0	7750.7	7542.4	7499.6
20°	6293.2	6342.2	6513.7	6905.6	7458.8	7975.2	8283.4	8291.6	8089.5	7787.4	7724.1
22.5°	5958.4	5995.2	6215.6	6674.9	7336.3	8005.8	8571.2	8712.1	8438.6	8032.3	7942.5
25°	5582.8	5623.7	5854.3	6350.4	7105.6	7971.1	8834.6	9144.8	8803.9	8293.6	8179.3
27.5°	5223.6	5239.9	5486.9	5991.1	6801.5	7881.3	9028.5	9542.9	9208.1	8510.0	8365.1
30°	4878.6	4917.4	5135.8	5633.9	6452.4	7705.7	9195.9	9996.0	9642.9	8736.6	8550.8
32.5°	4513.2	4560.2	4797.0	5301.1	6103.4	7442.4	9297.9	10492.1	10249.2	9104.0	8906.0
35°	4162.1	4192.7	4431.6	4921.5	5762.5	7136.2	9316.3	11051.4	11031.0	9661.3	9397.9
37.5°	3802.9	3847.8	4088.6	4558.1	5401.2	6811.7	9224.4	11645.4	11974.0	10434.9	10151.2
40°	3457.9	3496.7	3733.5	4207.0	4990.9	6415.7	9006.0	12188.3	13074.3	11231.0	10828.9
42.5°	3082.3	3092.5	3351.7	3833.5	4588.7	5956.4	8691.7	12672.1	14301.0	12298.6	11798.5
45°	2655.7	2682.2	2923.1	3396.7	4127.4	5442.0	8265.0	13072.2	15856.5	13778.5	13096.7
47.5°	2229.1	2251.5	2472.0	2939.4	3623.2	4852.1	7607.8	13423.3	17452.7	15658.5	14764.4
50°	1812.6	1824.9	2004.5	2418.9	3055.8	4231.5	6793.3	13535.6	19257.2	18320.3	17179.2
52.5°	1433.0	1451.3	1588.1	1912.7	2449.5	3498.7	5913.5	13258.0	21363.8	21476.1	19867.6
55°	1161.5	1167.6	1269.7	1508.5	1914.7	2731.2	4852.1	12484.3	23629.6	25519.8	23468.3
57.5°	1000.2	1004.3	1061.5	1194.1	1473.8	2059.6	3764.1	11020.7	25664.7	30257.6	27620.2
60°	908.4	910.4	943.1	1020.6	1167.6	1579.9	2696.5	8955.0	27673.3	35530.1	32780.5
62.5°	851.2	851.2	873.7	916.5	988.0	1212.5	1953.5	6460.6	29049.1	40880.3	39141.1
65°	796.1	796.1	812.4	843.0	881.8	992.1	1443.2	4213.2	29014.4	44777.0	45538.4
67.5°	732.8	732.8	745.1	775.7	798.1	853.2	1114.5	2759.8	26062.8	44691.3	49029.0
70°	657.3	657.3	673.6	700.2	718.5	753.2	879.8	1888.2	19147.0	38159.3	43603.3
72.5°	581.8	583.8	594.0	620.5	634.8	655.2	730.8	1322.7	11745.4	25983.2	30488.2
75°	498.1	502.1	512.4	538.9	551.1	559.3	616.5	943.1	5942.1	14009.1	15950.4
77.5°	402.1	410.3	416.4	445.0	453.2	465.4	508.3	681.8	2608.7	5033.7	5078.6
80°	293.9	304.1	322.5	349.1	355.2	363.3	387.8	483.8	1181.9	2298.5	2496.5
82.5°	216.4	230.7	208.2	242.9	242.9	232.7	273.5	324.6	543.0	2276.0	2723.0
85°	118.4	120.4	108.2	124.5	132.7	130.6	144.9	159.2	263.3	1518.7	1565.6
87.5°	28.6	30.6	32.7	38.8	46.9	46.9	51.0	44.9	85.7	491.9	281.7
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)