

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: P456151

Luminaire Tested: **GALN-SA7B-827-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456151
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-SA7B-827-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29084 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

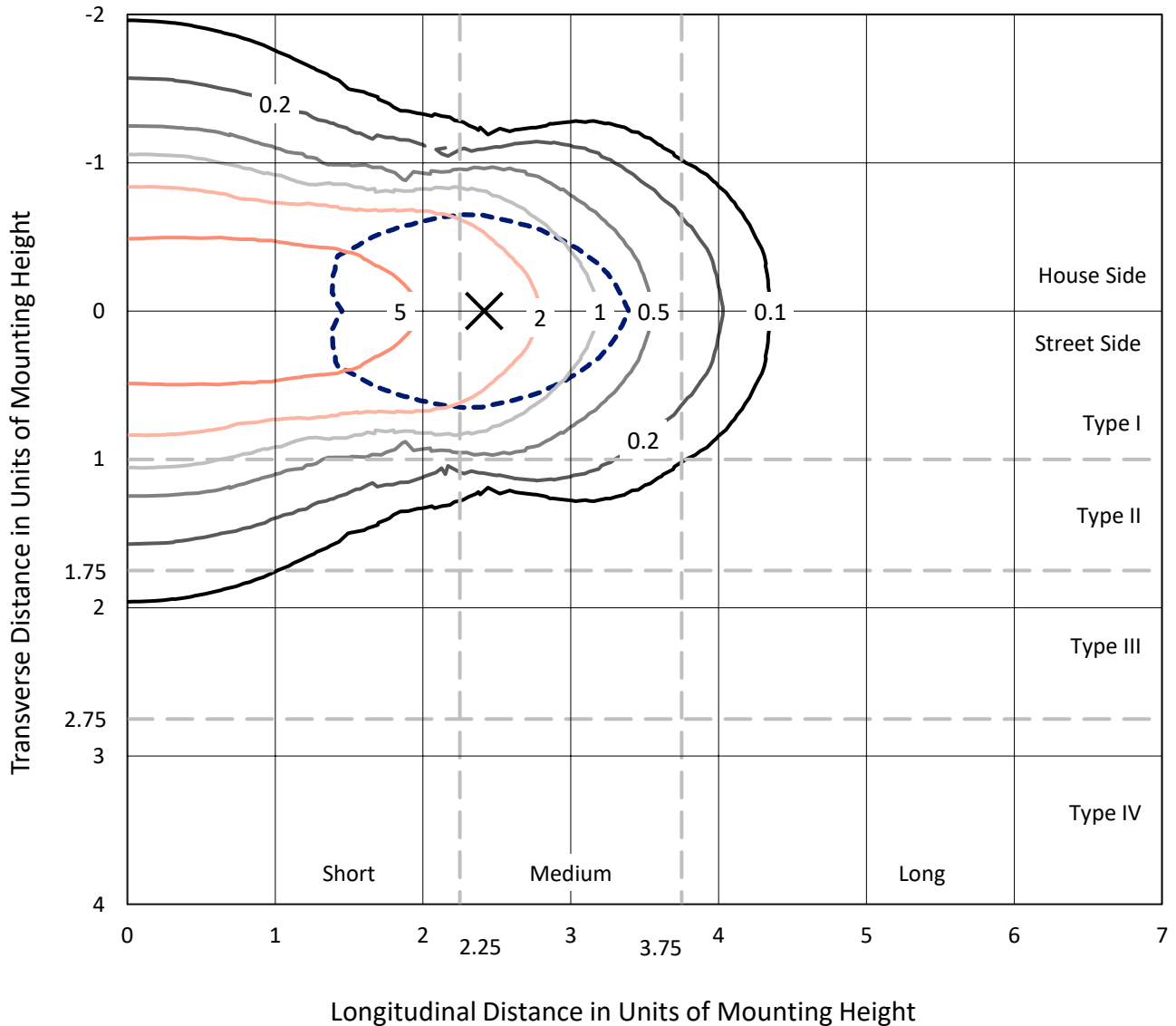
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

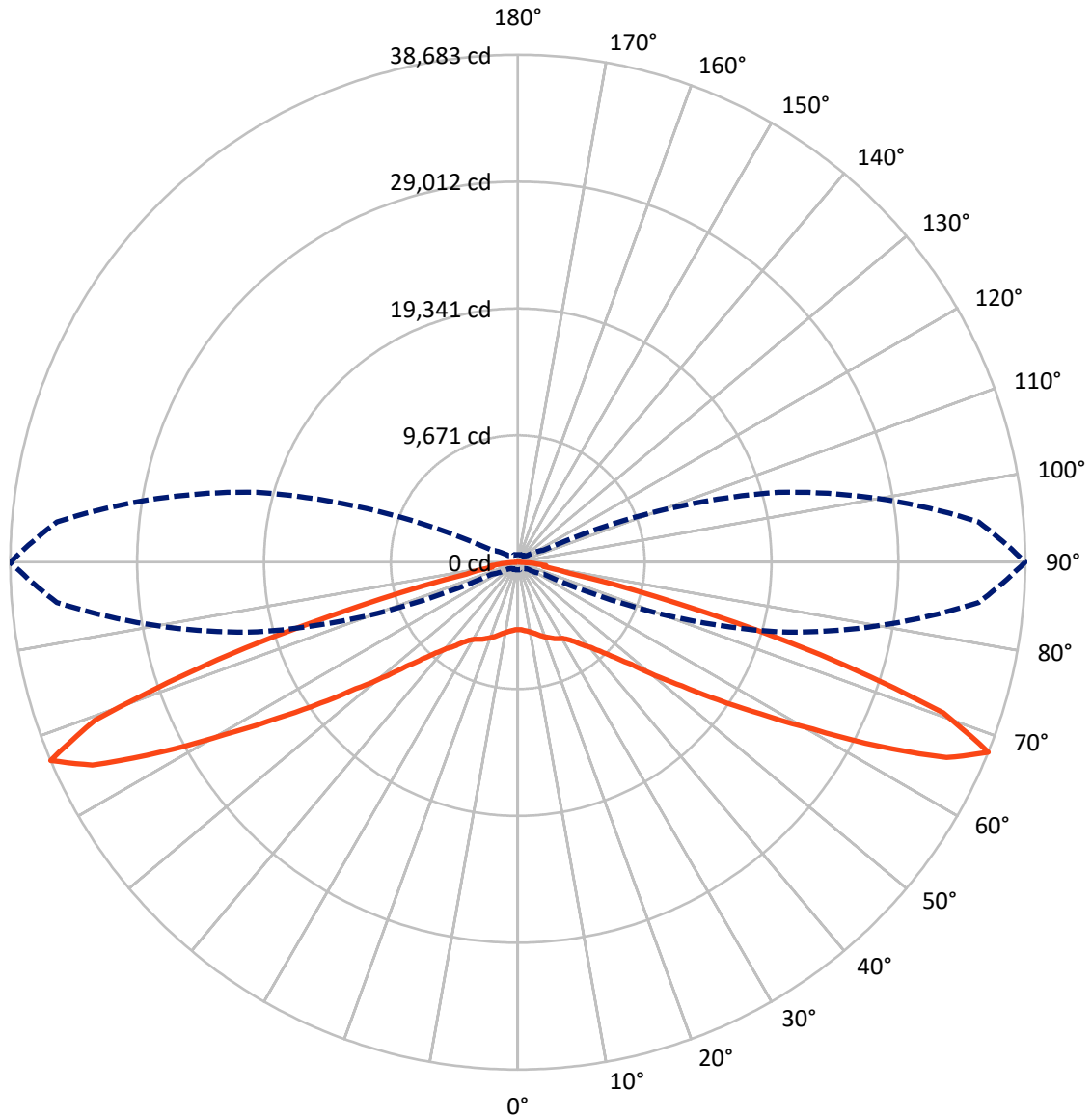
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	14542.0	0.0	14542.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14542.0	0.0	14542.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29084.0	0.0	29084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.3	1.8
10°-20°	1642.4	5.6
20°-30°	2748.9	9.5
30°-40°	3724.1	12.8
40°-50°	4717.2	16.2
50°-60°	5892.9	20.3
60°-70°	6926.9	23.8
70°-80°	2649.9	9.1
80°-90°	268.5	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°	29084.0	100.0
0°-180°	29084.0	100.0

Coefficient of Utilization

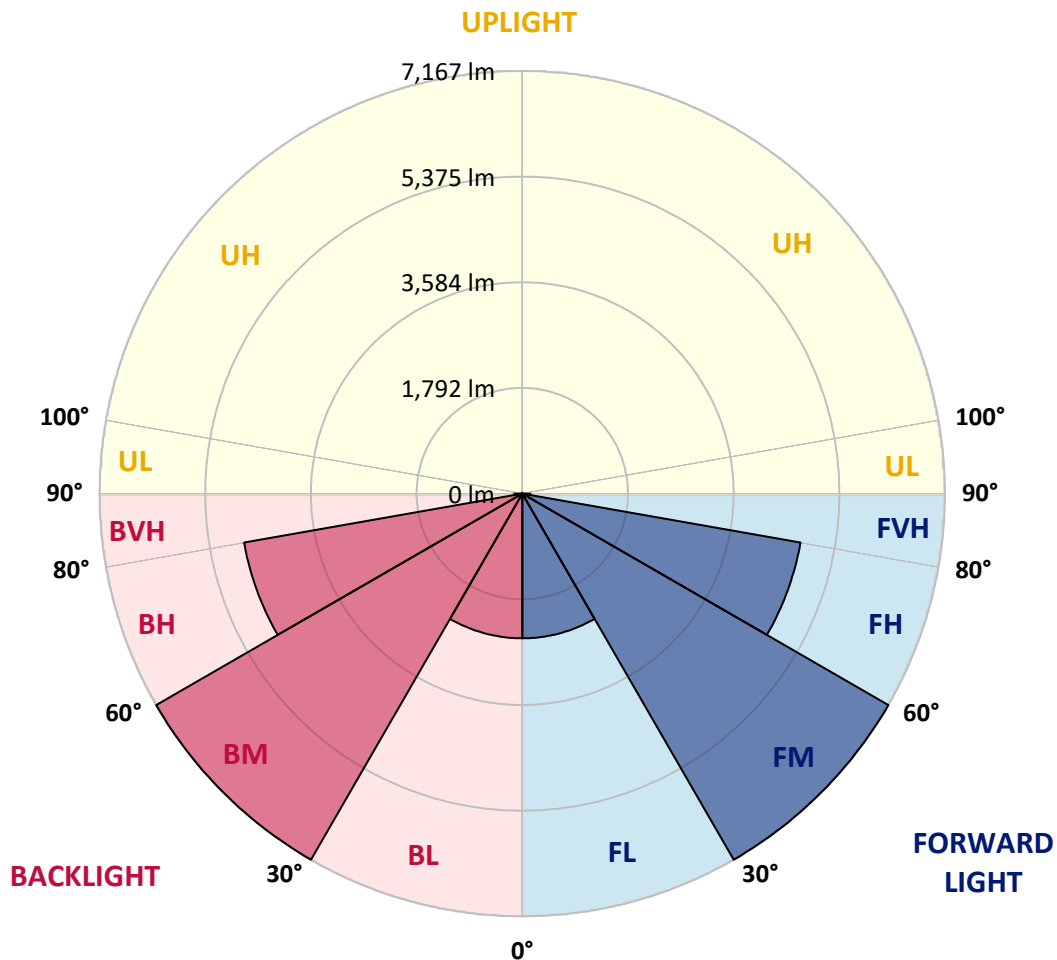


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2452.3	8.4			
FM (30°-60°)	7167.1	24.6			
FH (60°-80°)	4788.4	16.5			G2/5000
FVH (80°-90°)	134.2	0.5			G2/225
BL (0°-30°)	2452.3	8.4	B3/2500		
BM (30°-60°)	7167.1	24.6	B4/8500		
BH (60°-80°)	4788.4	16.5	B4/5000		G4/5000
BVH (80°-90°)	134.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5148.8	5148.8	5148.8	5148.8	5148.8	5148.8	5148.8	5148.8	5148.8	5148.8	5148.8
2.5°	5214.8	5211.6	5213.2	5211.6	5216.4	5213.2	5193.9	5177.8	5164.9	5166.5	5161.7
5°	5325.9	5327.5	5329.1	5321.1	5332.4	5325.9	5295.3	5269.6	5243.8	5234.1	5230.9
7.5°	5417.7	5425.8	5430.6	5438.7	5458.0	5458.0	5441.9	5404.8	5348.5	5316.3	5314.7
10°	5509.5	5516.0	5530.5	5556.2	5588.4	5619.0	5612.6	5562.7	5490.2	5435.4	5422.6
12.5°	5541.7	5549.8	5598.1	5672.2	5744.7	5804.2	5804.2	5764.0	5670.6	5586.8	5562.7
15°	5429.0	5443.5	5530.5	5688.3	5878.3	6008.8	6037.8	5981.4	5881.6	5752.7	5723.7
17.5°	5205.1	5240.6	5367.8	5601.3	5917.0	6187.5	6271.3	6243.9	6115.1	5950.8	5917.0
20°	4965.2	5003.8	5139.1	5448.3	5884.8	6292.2	6535.4	6541.9	6382.4	6144.1	6094.1
22.5°	4701.1	4730.0	4904.0	5266.3	5788.1	6316.4	6762.5	6873.6	6657.8	6337.3	6266.5
25°	4404.7	4436.9	4618.9	5010.3	5606.2	6289.0	6970.3	7215.0	6946.1	6543.5	6453.3
27.5°	4121.3	4134.2	4329.0	4726.8	5366.2	6218.1	7123.2	7529.1	7265.0	6714.2	6599.8
30°	3849.1	3879.7	4052.0	4445.0	5090.8	6079.6	7255.3	7886.6	7608.0	6892.9	6746.4
32.5°	3560.8	3597.9	3784.7	4182.5	4815.4	5871.9	7335.8	8278.0	8086.3	7182.8	7026.6
35°	3283.8	3308.0	3496.4	3882.9	4546.4	5630.3	7350.3	8719.3	8703.2	7622.5	7414.7
37.5°	3000.4	3035.8	3225.8	3596.3	4261.4	5374.2	7277.9	9187.9	9447.2	8232.9	8009.0
40°	2728.2	2758.8	2945.6	3319.2	3937.7	5061.8	7105.5	9616.3	10315.3	8861.0	8543.7
42.5°	2431.9	2439.9	2644.4	3024.5	3620.4	4699.4	6857.5	9998.0	11283.2	9703.3	9308.7
45°	2095.3	2116.2	2306.2	2679.9	3256.4	4293.6	6520.9	10313.7	12510.4	10870.9	10333.0
47.5°	1758.7	1776.4	1950.3	2319.1	2858.6	3828.2	6002.3	10590.7	13769.8	12354.2	11648.8
50°	1430.1	1439.8	1581.5	1908.4	2410.9	3338.6	5359.7	10679.2	15193.5	14454.3	13554.0
52.5°	1130.6	1145.1	1253.0	1509.0	1932.6	2760.4	4665.6	10460.2	16855.5	16944.1	15675.0
55°	916.4	921.2	1001.7	1190.2	1510.7	2154.9	3828.2	9849.8	18643.2	20134.5	18515.9
57.5°	789.1	792.4	837.5	942.1	1162.8	1625.0	2969.8	8695.1	20248.8	23872.5	21791.7
60°	716.7	718.3	744.1	805.3	921.2	1246.5	2127.5	7065.3	21833.6	28032.4	25863.0
62.5°	671.6	671.6	689.3	723.1	779.5	956.6	1541.3	5097.2	22919.0	32253.5	30881.4
65°	628.1	628.1	641.0	665.1	695.7	782.7	1138.6	3324.1	22891.7	35328.0	35928.7
67.5°	578.2	578.2	587.8	612.0	629.7	673.2	879.3	2177.4	20562.9	35260.3	38682.6
70°	518.6	518.6	531.5	552.4	566.9	594.3	694.1	1489.7	15106.5	30106.7	34401.9
72.5°	459.0	460.6	468.7	489.6	500.9	517.0	576.6	1043.6	9266.8	20500.1	24054.5
75°	393.0	396.2	404.2	425.2	434.8	441.3	486.4	744.1	4688.2	11052.9	12584.5
77.5°	317.3	323.7	328.5	351.1	357.5	367.2	401.0	537.9	2058.2	3971.5	4006.9
80°	231.9	240.0	254.5	275.4	280.2	286.7	306.0	381.7	932.5	1813.4	1969.6
82.5°	170.7	182.0	164.3	191.6	191.6	183.6	215.8	256.1	428.4	1795.7	2148.4
85°	93.4	95.0	85.4	98.2	104.7	103.1	114.3	125.6	207.8	1198.2	1235.3
87.5°	22.5	24.2	25.8	30.6	37.0	37.0	40.3	35.4	67.6	388.1	222.2
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)