

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: P455542

Luminaire Tested: **GALN-SA6D-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455542
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-SA6D-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38297 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

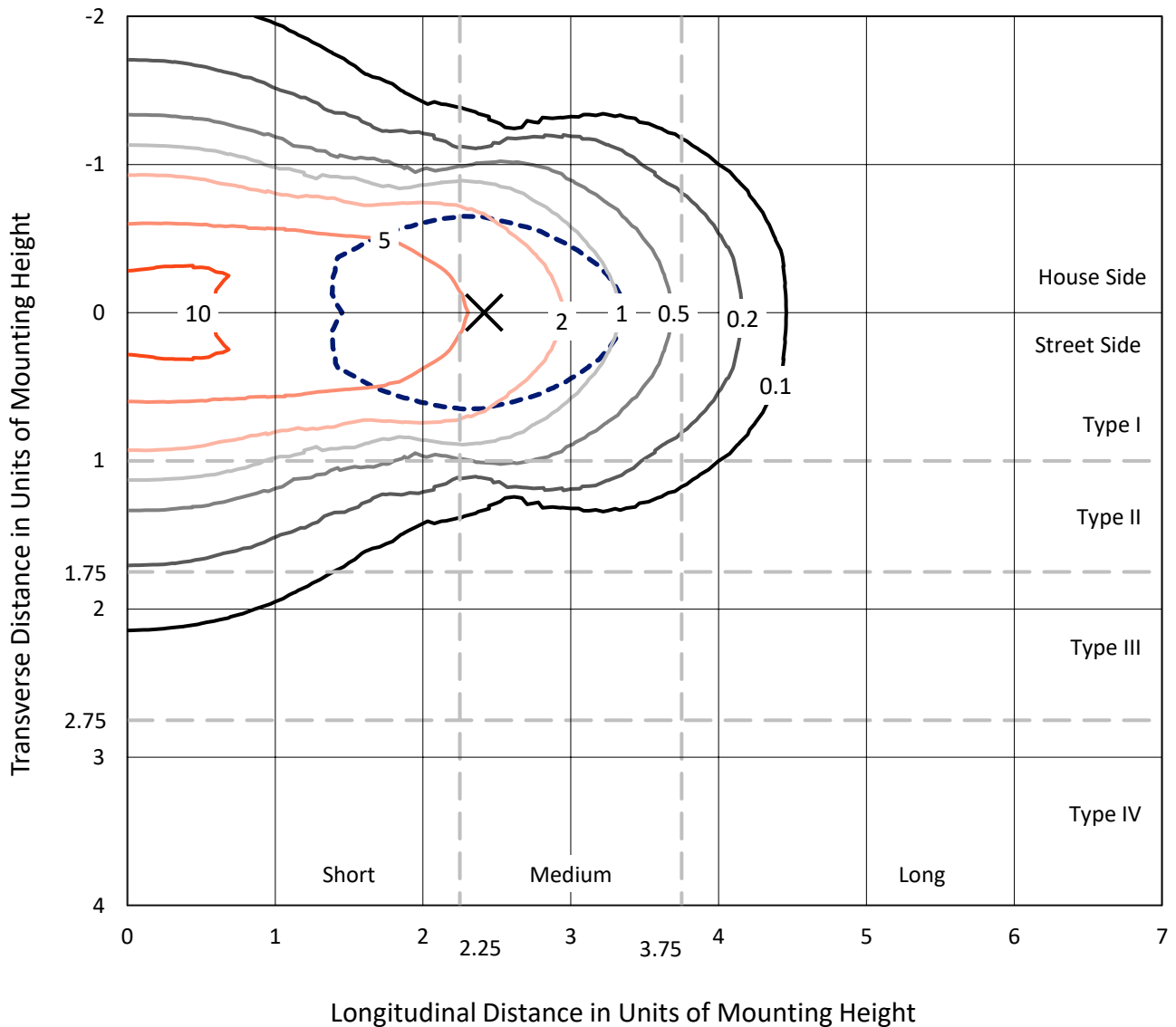
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

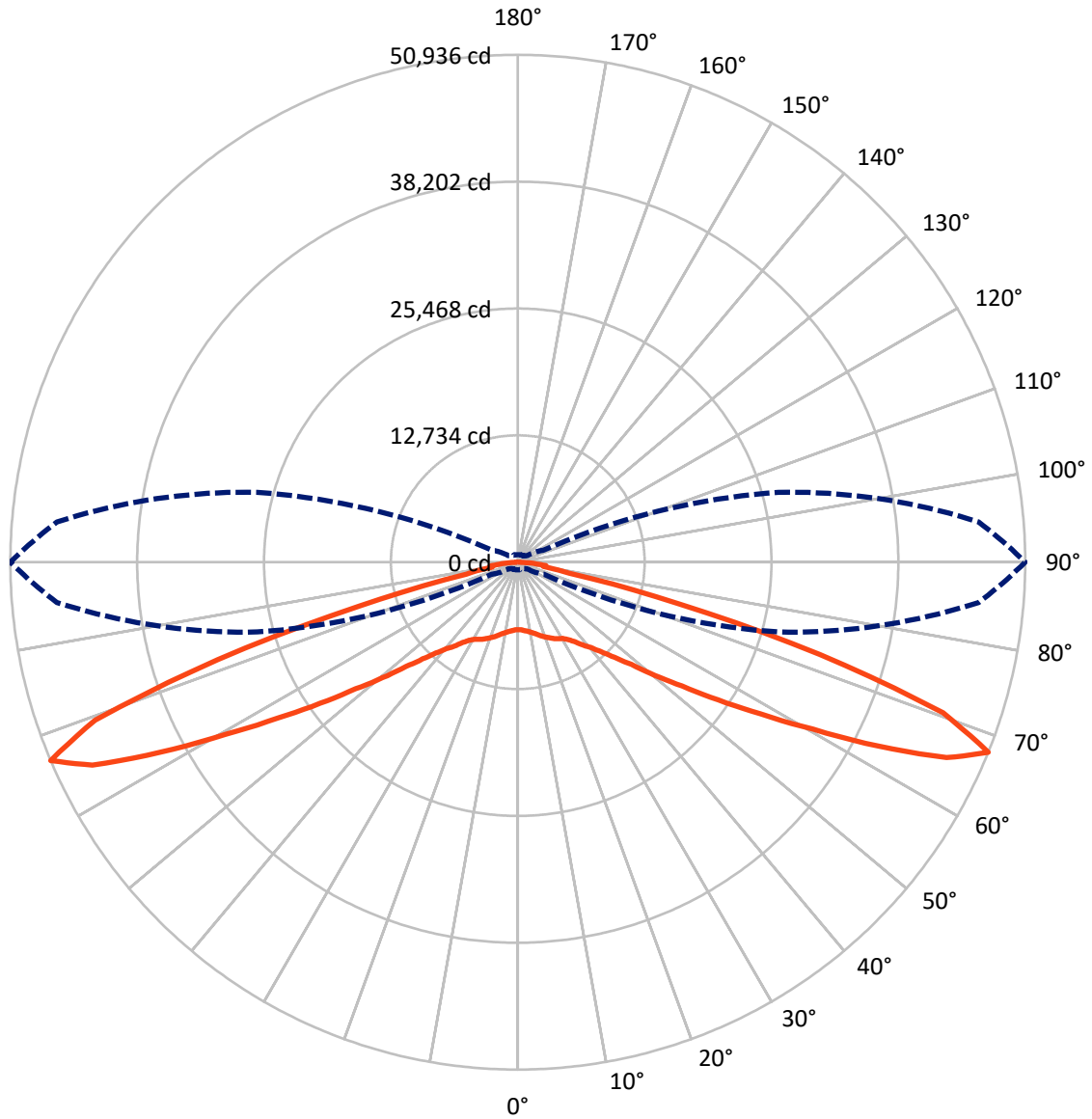
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	19148.5	0.0	19148.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19148.5	0.0	19148.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38297.0	0.0	38297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.9	1.8
10°-20°	2162.7	5.6
20°-30°	3619.7	9.5
30°-40°	4903.8	12.8
40°-50°	6211.4	16.2
50°-60°	7759.6	20.3
60°-70°	9121.1	23.8
70°-80°	3489.2	9.1
80°-90°	353.5	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°	38297.0	100.0
0°-180°	38297.0	100.0

Coefficient of Utilization



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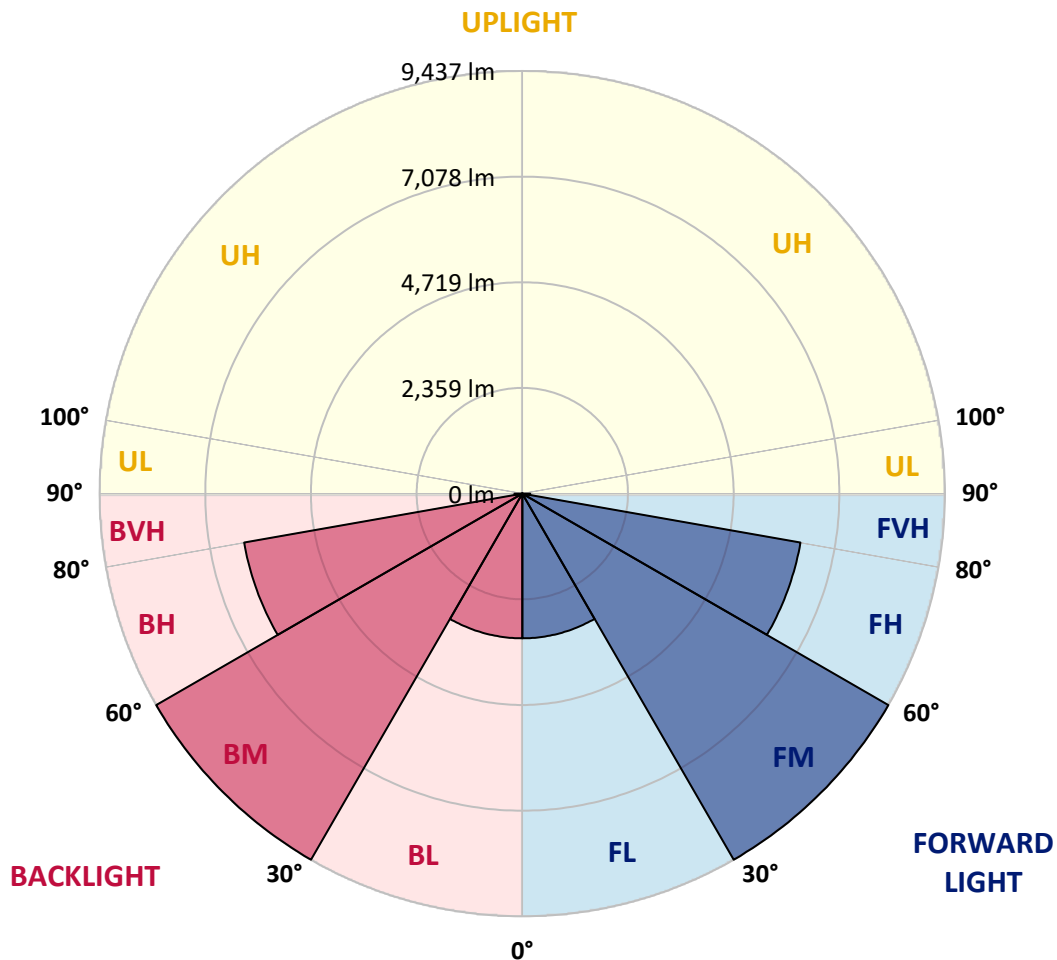
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3229.2	8.4			
FM (30°-60°)	9437.4	24.6			
FH (60°-80°)	6305.2	16.5			G3/7500
FVH (80°-90°)	176.8	0.5			G2/225
BL (0°-30°)	3229.2	8.4	B4/5000		
BM (30°-60°)	9437.4	24.6	B5		
BH (60°-80°)	6305.2	16.5	B5		G5
BVH (80°-90°)	176.8	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°	6779.8	6779.8	6779.8	6779.8	6779.8	6779.8	6779.8	6779.8	6779.8	6779.8	6779.8
2.5°	6866.7	6862.5	6864.6	6862.5	6868.8	6864.6	6839.1	6817.9	6801.0	6803.1	6796.7
5°	7013.0	7015.2	7017.3	7006.7	7021.5	7013.0	6972.7	6938.8	6904.9	6892.2	6887.9
7.5°	7133.9	7144.5	7150.9	7161.5	7186.9	7186.9	7165.7	7116.9	7042.7	7000.3	6998.2
10°	7254.8	7263.3	7282.4	7316.3	7358.7	7399.0	7390.5	7324.8	7229.3	7157.2	7140.3
12.5°	7297.2	7307.8	7371.4	7469.0	7564.4	7642.9	7642.9	7589.9	7466.9	7356.6	7324.8
15°	7148.8	7167.8	7282.4	7490.2	7740.4	7912.2	7950.4	7876.1	7744.7	7575.0	7536.8
17.5°	6854.0	6900.6	7068.2	7375.7	7791.3	8147.6	8257.9	8221.8	8052.2	7835.9	7791.3
20°	6538.0	6588.9	6767.0	7174.2	7748.9	8285.4	8605.7	8614.1	8404.2	8090.3	8024.6
22.5°	6190.2	6228.4	6457.4	6934.6	7621.7	8317.2	8904.7	9051.0	8766.8	8344.8	8251.5
25°	5800.0	5842.4	6082.1	6597.4	7382.0	8281.2	9178.2	9500.6	9146.4	8616.3	8497.5
27.5°	5426.8	5443.7	5700.3	6224.1	7066.1	8187.9	9379.7	9914.1	9566.3	8841.0	8690.5
30°	5068.4	5108.7	5335.6	5853.0	6703.4	8005.5	9553.6	10384.9	10018.0	9076.4	8883.5
32.5°	4688.8	4737.6	4983.6	5507.4	6340.8	7731.9	9659.6	10900.2	10647.9	9458.2	9252.5
35°	4324.0	4355.8	4604.0	5112.9	5986.6	7413.8	9678.7	11481.3	11460.1	10037.1	9763.5
37.5°	3950.8	3997.5	4247.7	4735.4	5611.3	7076.7	9583.3	12098.4	12439.8	10840.8	10546.1
40°	3592.4	3632.7	3878.7	4370.7	5185.0	6665.2	9356.4	12662.5	13582.9	11667.9	11250.1
42.5°	3202.2	3212.8	3482.1	3982.6	4767.3	6188.1	9029.8	13165.1	14857.4	12777.0	12257.4
45°	2759.0	2786.6	3036.8	3528.8	4288.0	5653.7	8586.6	13580.7	16473.3	14314.5	13606.2
47.5°	2315.8	2339.1	2568.1	3053.8	3764.2	5040.8	7903.7	13945.5	18131.7	16267.6	15338.8
50°	1883.1	1895.9	2082.5	2513.0	3174.6	4396.1	7057.6	14062.1	20006.3	19033.0	17847.5
52.5°	1488.7	1507.8	1649.9	1987.1	2544.8	3634.8	6143.6	13773.7	22194.9	22311.5	20640.4
55°	1206.7	1213.0	1319.1	1567.2	1989.2	2837.4	5040.8	12970.0	24548.8	26512.5	24381.3
57.5°	1039.1	1043.4	1102.7	1240.6	1531.1	2139.7	3910.5	11449.5	26663.1	31434.6	28694.7
60°	943.7	945.8	979.7	1060.3	1213.0	1641.4	2801.4	9303.4	28749.8	36912.3	34055.7
62.5°	884.3	884.3	907.6	952.2	1026.4	1259.7	2029.5	6711.9	30179.2	42470.5	40663.7
65°	827.1	827.1	844.0	875.8	916.1	1030.6	1499.3	4377.0	30143.1	46518.9	47309.9
67.5°	761.3	761.3	774.0	805.9	829.2	886.4	1157.9	2867.1	27076.6	46429.8	50936.2
70°	682.9	682.9	699.8	727.4	746.5	782.5	914.0	1961.6	19891.8	39643.7	45299.5
72.5°	604.4	606.5	617.1	644.7	659.5	680.7	759.2	1374.2	12202.3	26993.9	31674.2
75°	517.4	521.7	532.3	559.9	572.6	581.1	640.4	979.7	6173.3	14554.1	16570.9
77.5°	417.8	426.3	432.6	462.3	470.8	483.5	528.0	708.3	2710.2	5229.6	5276.2
80°	305.4	316.0	335.1	362.6	369.0	377.5	402.9	502.6	1227.9	2387.9	2593.6
82.5°	224.8	239.6	216.3	252.4	252.4	241.8	284.2	337.2	564.1	2364.5	2829.0
85°	123.0	125.1	112.4	129.4	137.8	135.7	150.6	165.4	273.6	1577.8	1626.5
87.5°	29.7	31.8	33.9	40.3	48.8	48.8	53.0	46.7	89.1	511.1	292.7
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)