

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: P454614

Luminaire Tested: **GALN-SA5D-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454614
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-SA5D-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 32342 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

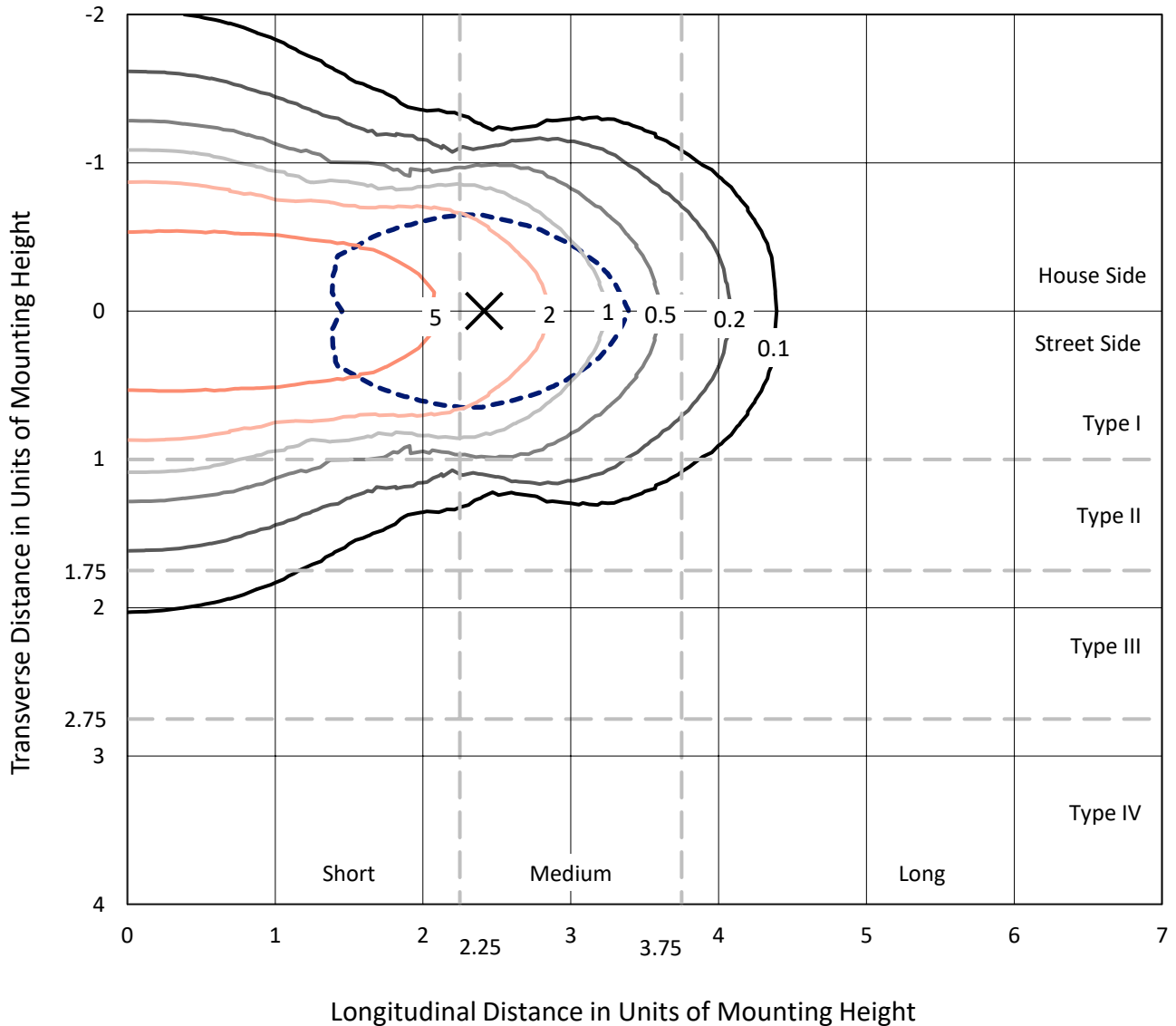
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

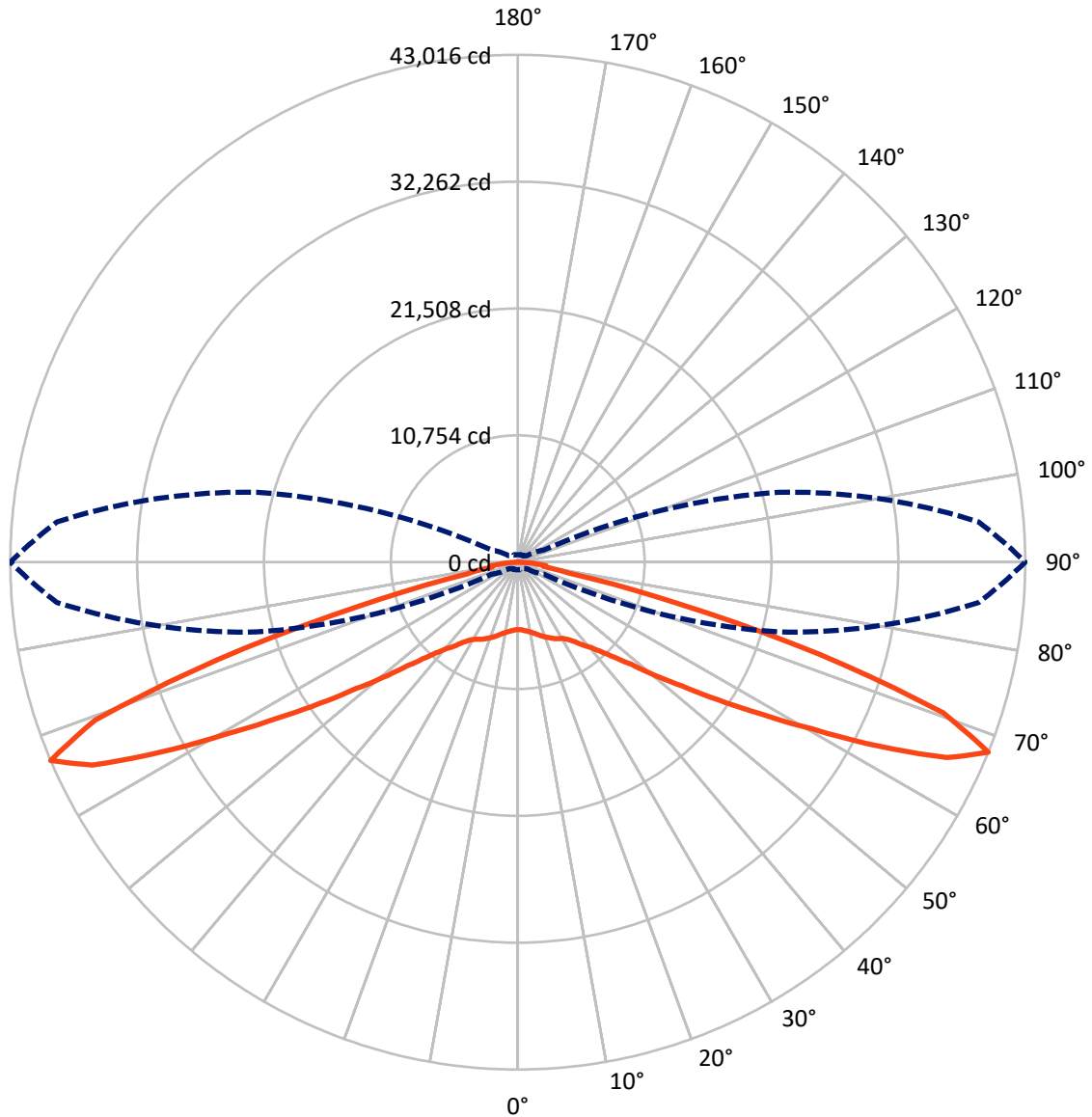
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	16171.0	0.0	16171.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16171.0	0.0	16171.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32342.0	0.0	32342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.8	1.8
10°-20°	1826.4	5.6
20°-30°	3056.9	9.5
30°-40°	4141.3	12.8
40°-50°	5245.6	16.2
50°-60°	6553.1	20.3
60°-70°	7702.8	23.8
70°-80°	2946.7	9.1
80°-90°	298.5	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°	32342.0	100.0
0°-180°	32342.0	100.0

Coefficient of Utilization



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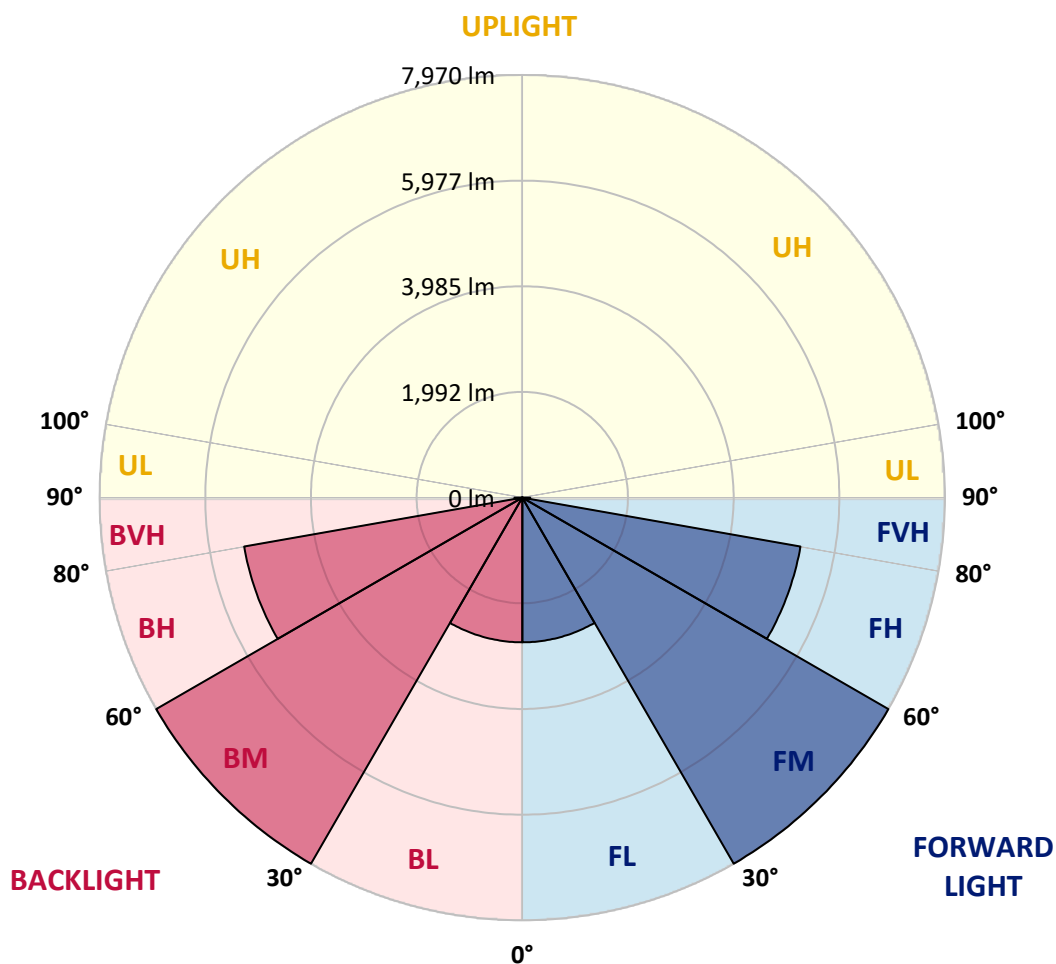
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2727.0	8.4			
FM (30°-60°)	7970.0	24.6			
FH (60°-80°)	5324.7	16.5			G3/7500
FVH (80°-90°)	149.3	0.5			G2/225
BL (0°-30°)	2727.0	8.4	B4/5000		
BM (30°-60°)	7970.0	24.6	B4/8500		
BH (60°-80°)	5324.7	16.5	B5		G5
BVH (80°-90°)	149.3	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°	5725.5	5725.5	5725.5	5725.5	5725.5	5725.5	5725.5	5725.5	5725.5	5725.5	5725.5
2.5°	5799.0	5795.4	5797.2	5795.4	5800.8	5797.2	5775.7	5757.8	5743.5	5745.2	5739.9
5°	5922.5	5924.3	5926.1	5917.2	5929.7	5922.5	5888.5	5859.9	5831.2	5820.5	5816.9
7.5°	6024.6	6033.6	6039.0	6047.9	6069.4	6069.4	6051.5	6010.3	5947.6	5911.8	5910.0
10°	6126.7	6133.9	6150.0	6178.6	6214.5	6248.5	6241.3	6185.8	6105.2	6044.3	6030.0
12.5°	6162.5	6171.5	6225.2	6307.6	6388.2	6454.4	6454.4	6409.7	6305.8	6212.7	6185.8
15°	6037.2	6053.3	6150.0	6325.5	6536.8	6681.9	6714.1	6651.4	6540.4	6397.1	6364.9
17.5°	5788.2	5827.6	5969.1	6228.8	6579.8	6880.7	6973.8	6943.4	6800.1	6617.4	6579.8
20°	5521.4	5564.4	5714.8	6058.7	6544.0	6997.1	7267.5	7274.7	7097.4	6832.3	6776.8
22.5°	5227.7	5259.9	5453.3	5856.3	6436.5	7024.0	7520.0	7643.6	7403.6	7047.2	6968.4
25°	4898.1	4934.0	5136.3	5571.5	6234.2	6993.5	7751.1	8023.3	7724.2	7276.5	7176.2
27.5°	4582.9	4597.3	4814.0	5256.3	5967.3	6914.7	7921.2	8372.5	8078.8	7466.3	7339.2
30°	4280.3	4314.3	4505.9	4942.9	5661.1	6760.7	8068.1	8770.1	8460.3	7665.1	7502.1
32.5°	3959.7	4000.9	4208.6	4651.0	5354.8	6529.7	8157.6	9205.3	8992.2	7987.5	7813.7
35°	3651.7	3678.5	3888.1	4317.9	5055.7	6261.0	8173.7	9696.0	9678.1	8476.4	8245.4
37.5°	3336.5	3375.9	3587.2	3999.1	4738.7	5976.3	8093.1	10217.1	10505.5	9155.1	8906.2
40°	3033.8	3067.8	3275.6	3691.1	4378.8	5628.8	7901.5	10693.5	11470.8	9853.6	9500.8
42.5°	2704.3	2713.2	2940.7	3363.3	4026.0	5225.9	7625.7	11118.0	12547.1	10790.2	10351.5
45°	2330.0	2353.3	2564.6	2980.1	3621.2	4774.6	7251.4	11469.0	13911.8	12088.6	11490.5
47.5°	1955.7	1975.4	2168.8	2578.9	3178.9	4257.0	6674.7	11777.0	15312.3	13738.1	12953.7
50°	1590.3	1601.1	1758.7	2122.2	2681.0	3712.6	5960.2	11875.5	16895.4	16073.4	15072.3
52.5°	1257.2	1273.3	1393.3	1678.1	2149.1	3069.6	5188.3	11632.0	18743.7	18842.2	17430.9
55°	1019.0	1024.4	1113.9	1323.5	1679.9	2396.2	4257.0	10953.2	20731.6	22390.0	20590.1
57.5°	877.5	881.1	931.3	1047.7	1293.0	1807.0	3302.4	9669.1	22517.1	26546.7	24232.8
60°	797.0	798.7	827.4	895.5	1024.4	1386.2	2365.8	7856.7	24279.4	31172.6	28760.2
62.5°	746.8	746.8	766.5	804.1	866.8	1063.8	1713.9	5668.2	25486.4	35866.6	34340.7
65°	698.5	698.5	712.8	739.6	773.7	870.4	1266.2	3696.4	25456.0	39285.4	39953.4
67.5°	642.9	642.9	653.7	680.5	700.2	748.6	977.8	2421.3	22866.3	39210.2	43015.9
70°	576.7	576.7	591.0	614.3	630.4	660.8	771.9	1656.6	16798.7	33479.3	38255.6
72.5°	510.4	512.2	521.2	544.4	557.0	574.9	641.1	1160.5	10304.9	22796.5	26749.0
75°	437.0	440.6	449.5	472.8	483.5	490.7	540.9	827.4	5213.3	12291.0	13994.2
77.5°	352.8	360.0	365.3	390.4	397.6	408.3	445.9	598.2	2288.8	4416.4	4455.8
80°	257.9	266.8	283.0	306.2	311.6	318.8	340.3	424.4	1036.9	2016.6	2190.3
82.5°	189.8	202.4	182.7	213.1	213.1	204.2	240.0	284.8	476.4	1996.9	2389.1
85°	103.9	105.7	94.9	109.2	116.4	114.6	127.2	139.7	231.0	1332.4	1373.6
87.5°	25.1	26.9	28.7	34.0	41.2	41.2	44.8	39.4	75.2	431.6	247.1
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)