

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: P457382

Luminaire Tested: **GALN-SA8D-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54793 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

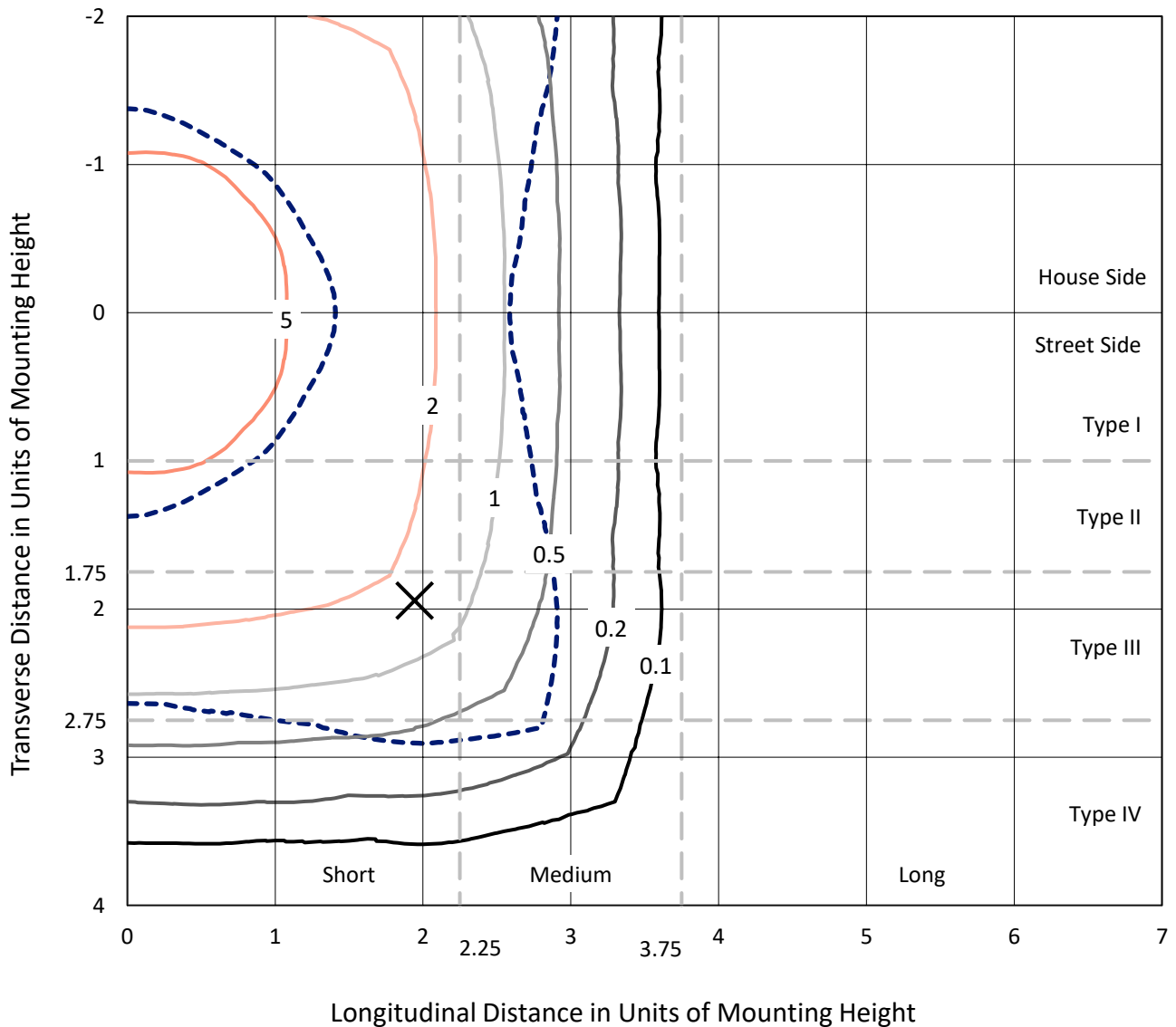
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

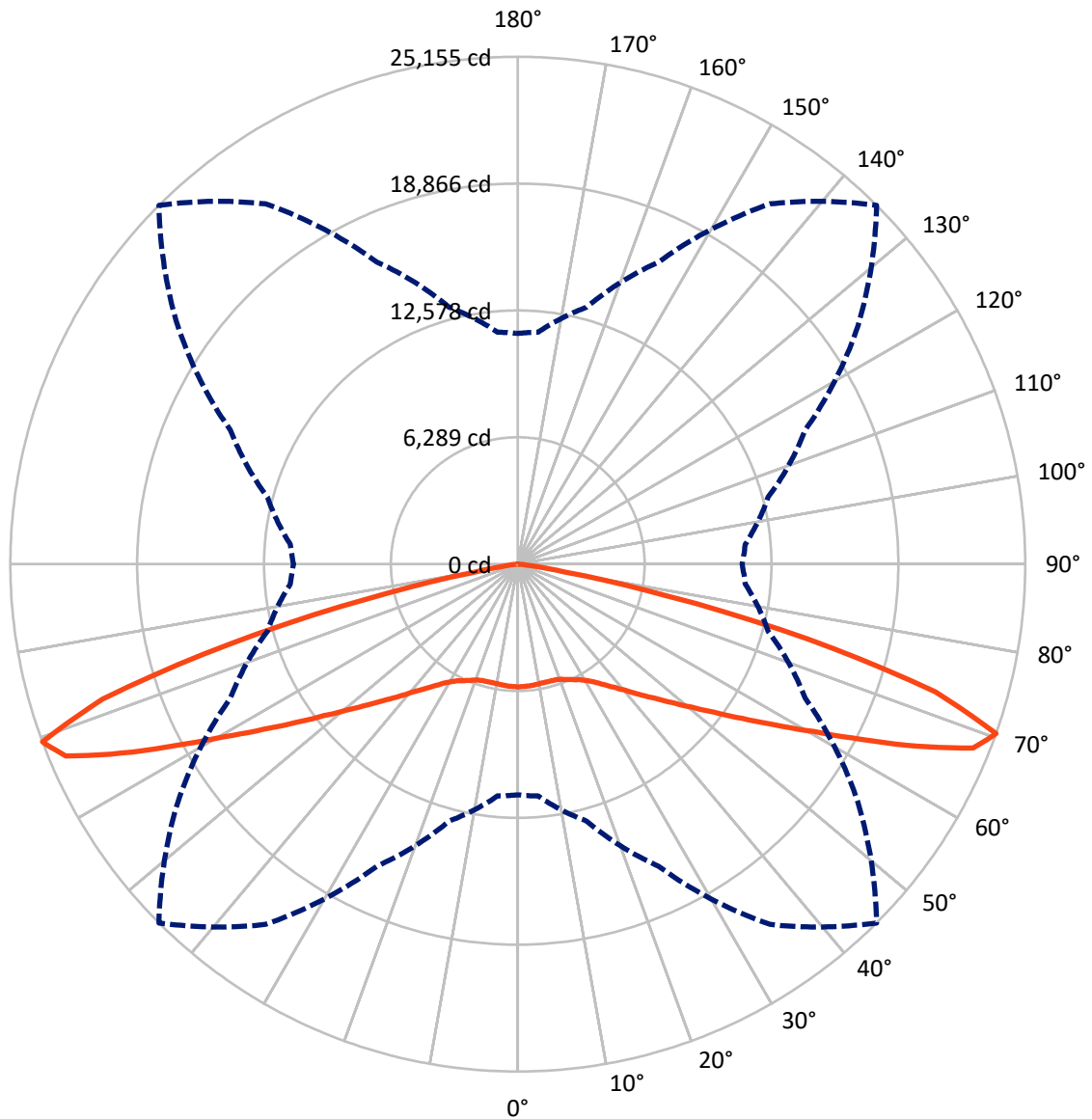
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27396.5	0.0	27396.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27396.5	0.0	27396.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	54793.0	0.0	54793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.0	1.1
10°-20°	1693.1	3.1
20°-30°	2895.8	5.3
30°-40°	4596.2	8.4
40°-50°	7414.9	13.5
50°-60°	12064.1	22.0
60°-70°	17488.7	31.9
70°-80°	7757.4	14.2
80°-90°	306.0	0.6
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°	54793.0	100.0
0°-180°	54793.0	100.0

Coefficient of Utilization



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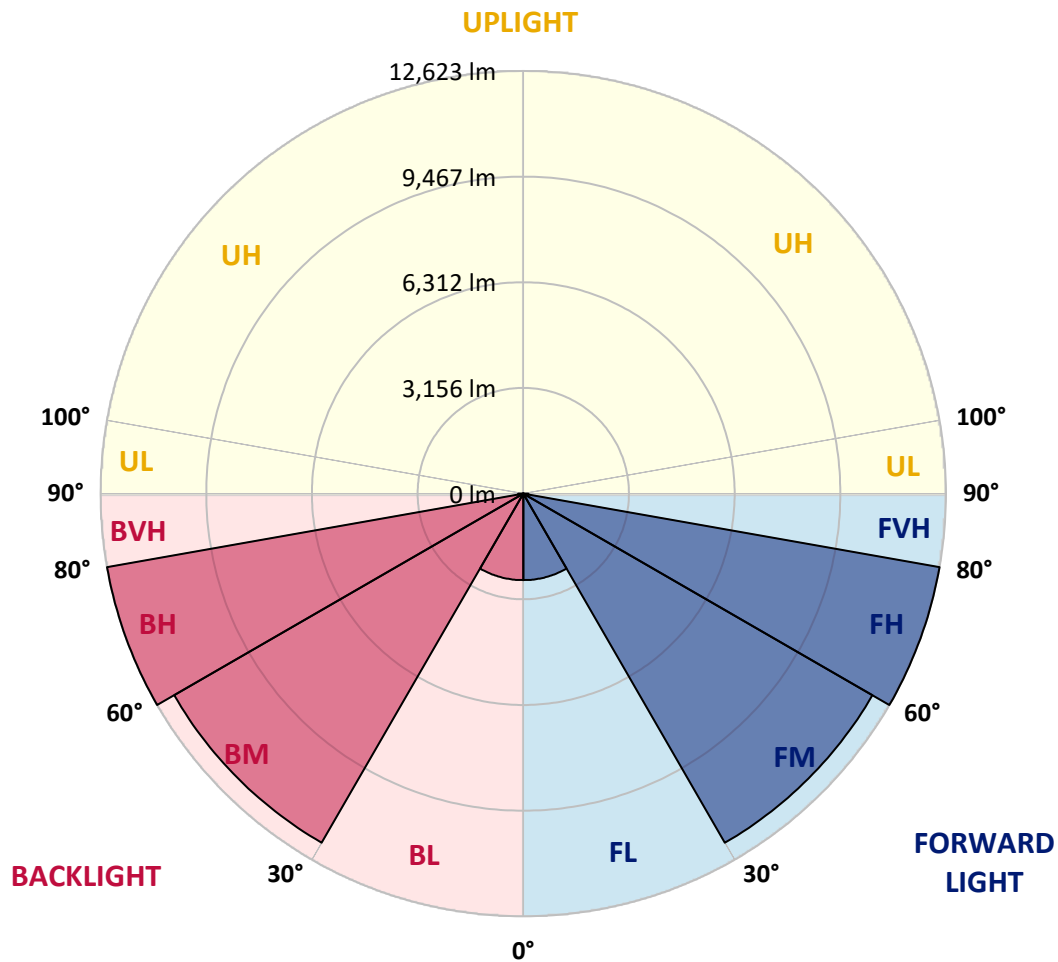
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2582.9	4.7			
FM (30°-60°)	12037.6	22.0			
FH (60°-80°)	12623.0	23.0			G5
FVH (80°-90°)	153.0	0.3			G2/225
BL (0°-30°)	2582.9	4.7	B4/5000		
BM (30°-60°)	12037.6	22.0	B5		
BH (60°-80°)	12623.0	23.0	B5		G5
BVH (80°-90°)	153.0	0.3			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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5	6084.5
2.5°	6084.5	6090.3	6081.6	6075.8	6073.0	6073.0	6070.1	6073.0	6090.3	6093.2	6084.5
5°	6067.2	6073.0	6070.1	6064.3	6061.4	6061.4	6058.5	6055.6	6070.1	6075.8	6073.0
7.5°	6044.1	6047.0	6044.1	6041.2	6044.1	6041.2	6032.5	6026.7	6038.3	6038.3	6035.4
10°	6003.6	6009.4	6006.5	6009.4	6015.2	6015.2	6003.6	5992.1	5995.0	5989.2	5989.2
12.5°	5954.6	5963.2	5966.1	5977.7	5992.1	6009.4	5983.4	5957.4	5951.7	5948.8	5945.9
15°	5922.8	5931.5	5943.0	5954.6	5980.5	6018.1	5980.5	5940.1	5928.6	5917.0	5911.2
17.5°	5914.1	5925.7	5943.0	5960.3	5995.0	6032.5	6000.8	5960.3	5931.5	5914.1	5908.4
20°	5937.2	5945.9	5971.9	6003.6	6052.7	6090.3	6058.5	6015.2	5971.9	5945.9	5937.2
22.5°	5983.4	5997.9	6029.6	6087.4	6156.7	6211.6	6168.2	6096.1	6026.7	5992.1	5980.5
25°	6084.5	6096.1	6133.6	6211.6	6292.4	6344.4	6298.2	6214.5	6119.2	6073.0	6058.5
27.5°	6237.6	6254.9	6295.3	6387.7	6454.1	6483.0	6451.2	6393.5	6324.2	6275.1	6263.5
30°	6454.1	6474.4	6535.0	6633.2	6676.5	6693.8	6679.4	6641.8	6592.7	6540.8	6529.2
32.5°	6745.8	6757.4	6826.7	6919.1	6959.5	6965.3	6947.9	6930.6	6849.8	6763.1	6757.4
35°	7072.1	7092.3	7176.1	7285.8	7323.4	7326.2	7291.6	7265.6	7170.3	7101.0	7101.0
37.5°	7505.3	7513.9	7594.8	7719.0	7759.4	7747.9	7730.5	7707.4	7606.4	7516.8	7519.7
40°	8013.5	8030.9	8100.2	8244.5	8244.5	8230.1	8241.7	8224.3	8123.3	8036.6	8039.5
42.5°	8617.1	8625.7	8709.5	8862.5	8851.0	8822.1	8833.6	8810.5	8747.0	8648.8	8614.2
45°	9261.0	9295.7	9440.1	9587.4	9564.3	9471.8	9518.0	9512.3	9454.5	9307.2	9315.9
47.5°	10037.8	10095.6	10234.2	10410.4	10384.4	10240.0	10292.0	10326.6	10245.8	10084.0	10055.2
50°	10912.8	10950.4	11155.4	11320.0	11296.9	11143.9	11262.3	11268.0	11065.9	10837.8	10837.8
52.5°	11845.6	11883.1	12160.3	12417.4	12431.8	12209.4	12304.7	12299.0	11969.8	11669.4	11611.7
55°	12890.9	12908.3	13266.4	13644.7	13725.5	13508.9	13520.5	13405.0	12977.6	12628.2	12596.4
57.5°	13971.0	14034.5	14430.1	14921.0	15160.7	15027.9	14967.2	14658.3	14245.3	13843.9	13823.7
60°	15166.5	15169.4	15683.4	16263.8	16749.0	16838.5	16590.2	16177.2	15643.0	15111.6	15088.5
62.5°	15995.3	16119.5	16769.2	17751.0	18620.3	19122.7	18467.2	17600.9	16549.7	15692.1	15605.4
65°	16165.7	16249.4	17239.9	18903.3	20679.2	21762.1	20246.1	18403.7	16610.4	15466.8	15409.1
67.5°	14788.2	14877.7	16211.9	18764.6	22123.1	24343.8	21401.2	18016.7	15582.3	14167.3	14054.7
70°	11438.4	11539.5	13188.4	16518.0	21802.6	25155.3	20578.2	15715.2	12850.5	11322.9	11117.9
72.5°	6081.6	6454.1	7863.4	11337.3	17696.2	21658.2	16873.2	11467.3	8287.9	6774.7	6503.2
75°	2220.7	2266.9	3052.4	5027.6	10294.9	14851.7	10690.5	5469.4	3144.8	2428.6	2304.4
77.5°	918.3	915.4	1004.9	1519.0	3739.6	7606.4	4172.8	1605.6	1002.1	927.0	915.4
80°	542.9	542.9	597.8	632.4	984.7	2295.8	1100.2	716.2	600.7	548.7	557.3
82.5°	242.6	257.0	378.3	398.5	476.5	629.5	531.3	456.3	392.7	271.4	245.5
85°	132.8	115.5	199.3	207.9	228.1	233.9	251.2	248.3	228.1	132.8	135.7
87.5°	26.0	31.8	57.8	43.3	49.1	43.3	57.8	80.9	83.7	46.2	37.5
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)