

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: P454748

Luminaire Tested: **GALN-SA5D-827-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-827-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29383 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

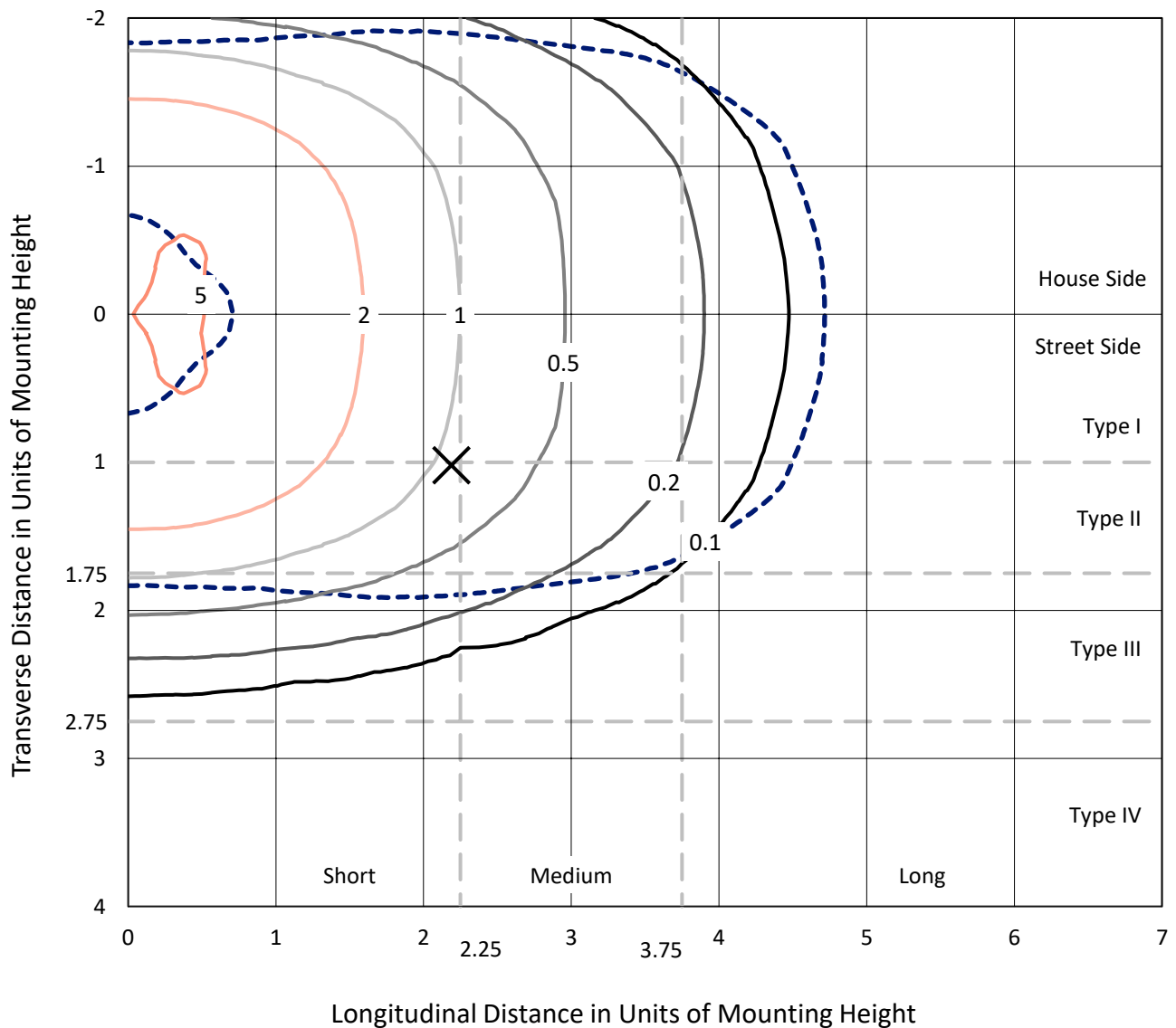
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

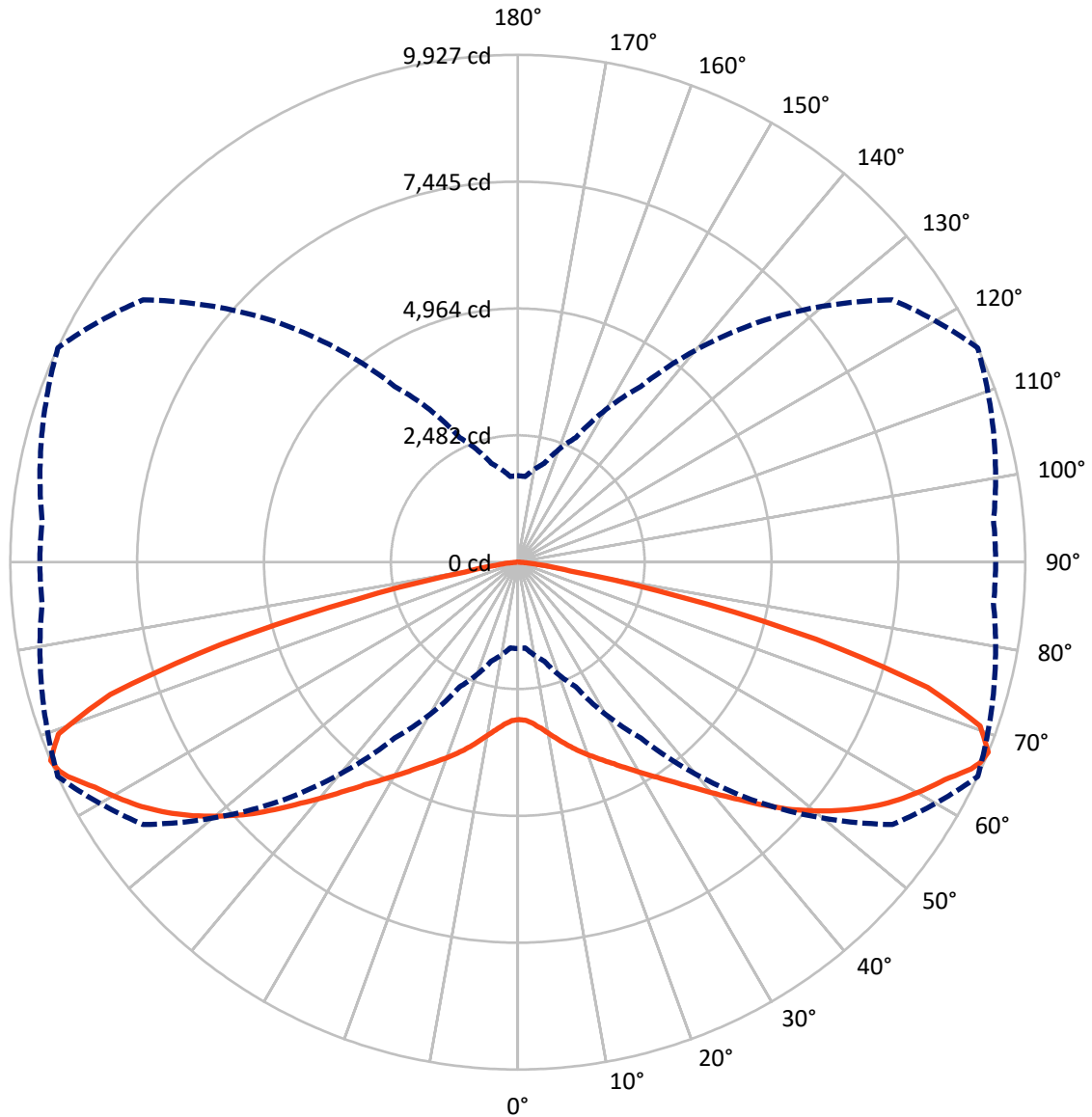
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14691.5	0.0	14691.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14691.5	0.0	14691.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29383.0	0.0	29383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.5	1.0
10°-20°	1015.9	3.5
20°-30°	1987.2	6.8
30°-40°	3379.9	11.5
40°-50°	5349.4	18.2
50°-60°	7093.2	24.1
60°-70°	6691.1	22.8
70°-80°	3307.8	11.3
80°-90°	254.9	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°	29383.0	100.0
0°-180°	29383.0	100.0

Coefficient of Utilization



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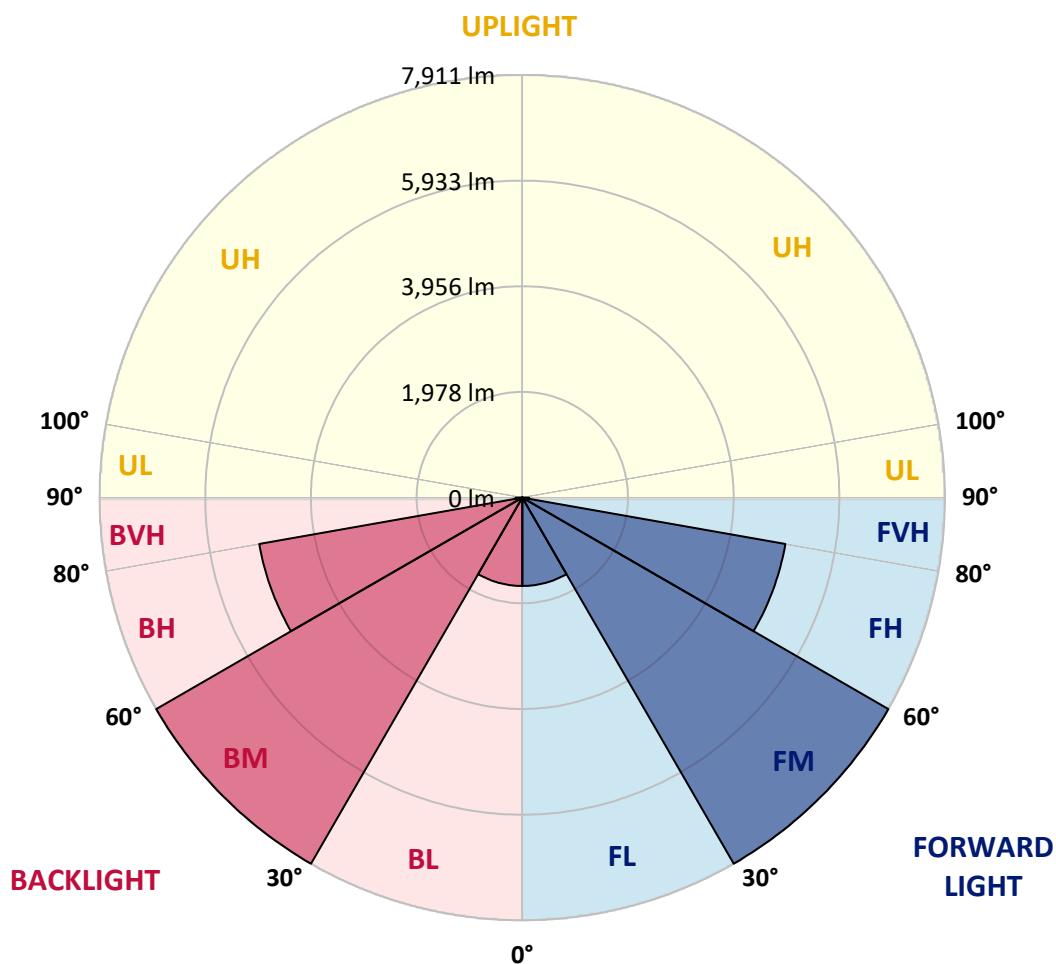
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1653.3	5.6			
FM	(30°-60°)	7911.3	26.9			
FH	(60°-80°)	4999.4	17.0			G2/5000
FVH	(80°-90°)	127.5	0.4			G2/225
BL	(0°-30°)	1653.3	5.6	B3/2500		
BM	(30°-60°)	7911.3	26.9	B4/8500		
BH	(60°-80°)	4999.4	17.0	B4/5000		G4/5000
BVH	(80°-90°)	127.5	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6	3077.6
2.5°	3061.9	3065.0	3068.2	3072.9	3079.2	3088.6	3094.9	3099.6	3112.2	3113.8	3112.2
5°	3050.8	3054.0	3061.9	3076.0	3096.5	3124.8	3146.9	3173.6	3194.1	3208.3	3205.1
7.5°	3049.3	3055.6	3068.2	3098.1	3137.4	3186.2	3236.6	3282.3	3321.6	3353.1	3348.4
10°	3074.5	3082.3	3102.8	3146.9	3208.3	3279.1	3350.0	3417.6	3474.3	3515.2	3529.4
12.5°	3117.0	3123.3	3161.0	3227.2	3315.3	3403.5	3483.8	3567.2	3645.9	3715.2	3715.2
15°	3191.0	3202.0	3249.2	3345.2	3453.8	3556.2	3638.0	3726.2	3811.2	3889.9	3913.5
17.5°	3293.3	3309.0	3379.9	3502.7	3641.2	3735.6	3812.8	3885.2	3959.2	4034.7	4045.8
20°	3433.4	3449.1	3543.6	3691.6	3855.3	3968.6	4020.6	4037.9	4074.1	4146.5	4156.0
22.5°	3623.9	3639.6	3745.1	3911.9	4094.6	4217.3	4239.4	4198.5	4189.0	4245.7	4252.0
25°	3839.5	3853.7	3974.9	4154.4	4343.3	4477.1	4470.8	4370.0	4313.4	4348.0	4357.5
27.5°	4082.0	4102.4	4225.2	4411.0	4615.6	4733.7	4714.8	4568.4	4447.2	4440.9	4444.0
30°	4392.1	4414.1	4530.6	4708.5	4910.0	5018.6	4979.3	4782.5	4595.2	4532.2	4532.2
32.5°	4719.5	4774.6	4892.7	5078.5	5235.9	5314.6	5254.8	5018.6	4769.9	4681.7	4677.0
35°	5146.1	5176.1	5292.5	5473.6	5591.6	5653.0	5538.1	5284.7	4998.2	4894.3	4880.1
37.5°	5563.3	5588.5	5723.9	5897.0	6040.3	6037.2	5881.3	5601.1	5281.5	5165.0	5155.6
40°	5989.9	6016.7	6171.0	6330.0	6473.2	6460.6	6271.7	5958.4	5618.4	5487.7	5512.9
42.5°	6359.9	6389.8	6564.5	6791.2	6920.3	6917.1	6698.3	6345.7	5991.5	5875.0	5897.0
45°	6696.8	6723.5	6926.6	7186.3	7375.2	7398.9	7159.6	6786.5	6422.8	6273.3	6279.6
47.5°	6934.5	6984.8	7197.4	7494.9	7751.5	7834.9	7600.4	7235.1	6816.4	6660.5	6670.0
50°	7115.5	7147.0	7378.4	7716.9	8041.1	8214.3	8025.4	7650.7	7210.0	7044.7	7066.7
52.5°	7137.5	7175.3	7427.2	7817.6	8233.2	8496.1	8403.2	8056.9	7611.4	7441.4	7488.6
55°	6958.1	6980.1	7280.8	7754.6	8308.8	8705.5	8729.1	8434.7	7993.9	7864.8	7896.3
57.5°	6446.5	6503.1	6884.1	7460.3	8204.9	8817.2	8973.1	8777.9	8381.2	8253.7	8304.0
60°	5607.4	5664.1	6046.6	6777.0	7812.9	8765.3	9174.6	9081.7	8732.2	8629.9	8656.7
62.5°	4393.7	4388.9	4862.8	5758.5	7033.6	8510.3	9324.1	9374.5	9078.6	8949.5	8990.4
65°	2847.8	2861.9	3320.0	4285.0	5857.7	7861.7	9357.2	9747.6	9418.6	9223.4	9253.3
66°	2290.5	2333.0	2721.8	3611.3	5257.9	7436.6	9258.0	9857.8	9522.5	9286.4	9300.5
67.5°	1690.7	1682.8	2002.4	2688.8	4198.5	6629.1	8947.9	9927.1	9640.6	9343.0	9349.3
70°	965.0	963.4	1076.8	1476.6	2468.4	4667.6	7542.1	9594.9	9879.8	9547.7	9530.4
72.5°	705.3	700.5	716.3	815.4	1204.3	2356.6	5202.8	8385.9	9757.0	9514.6	9465.8
75°	591.9	588.8	585.6	598.2	675.3	1067.3	2761.2	6032.4	8466.2	8930.6	8880.2
77.5°	483.3	483.3	484.9	481.7	484.9	562.0	1144.5	3233.5	5155.6	5755.4	5895.5
80°	377.8	376.2	403.0	392.0	366.8	360.5	506.9	1040.6	1711.2	1701.7	1404.2
82.5°	278.6	259.7	307.0	299.1	270.8	229.8	296.0	443.9	571.4	371.5	275.5
85°	176.3	174.7	217.2	198.4	165.3	108.6	141.7	190.5	236.1	143.3	116.5
87.5°	31.5	29.9	69.3	50.4	50.4	31.5	39.4	51.9	77.1	53.5	39.4
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)