

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: P530491

Luminaire Tested: **GALN-SA5D-727-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-727-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20938 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

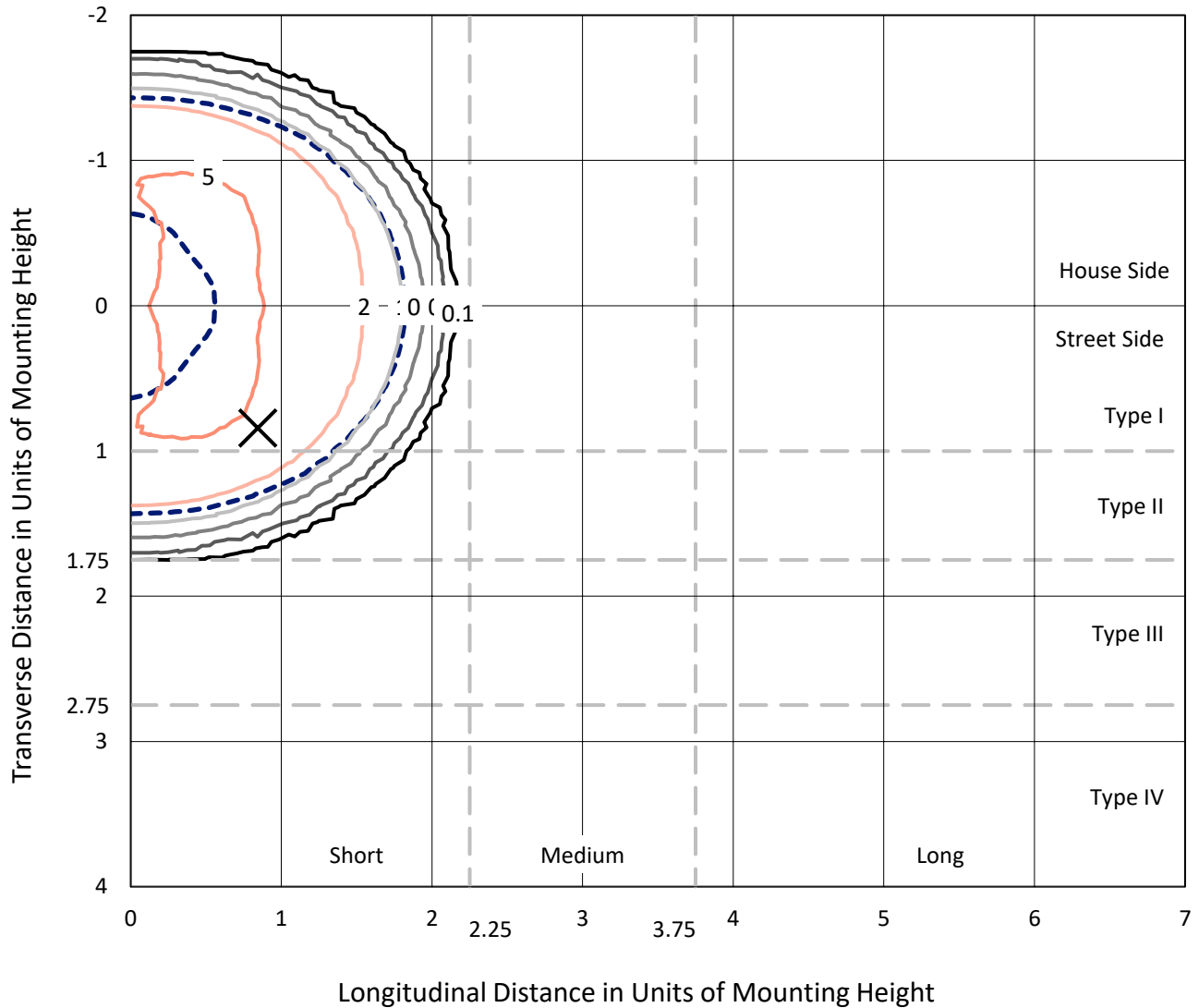
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

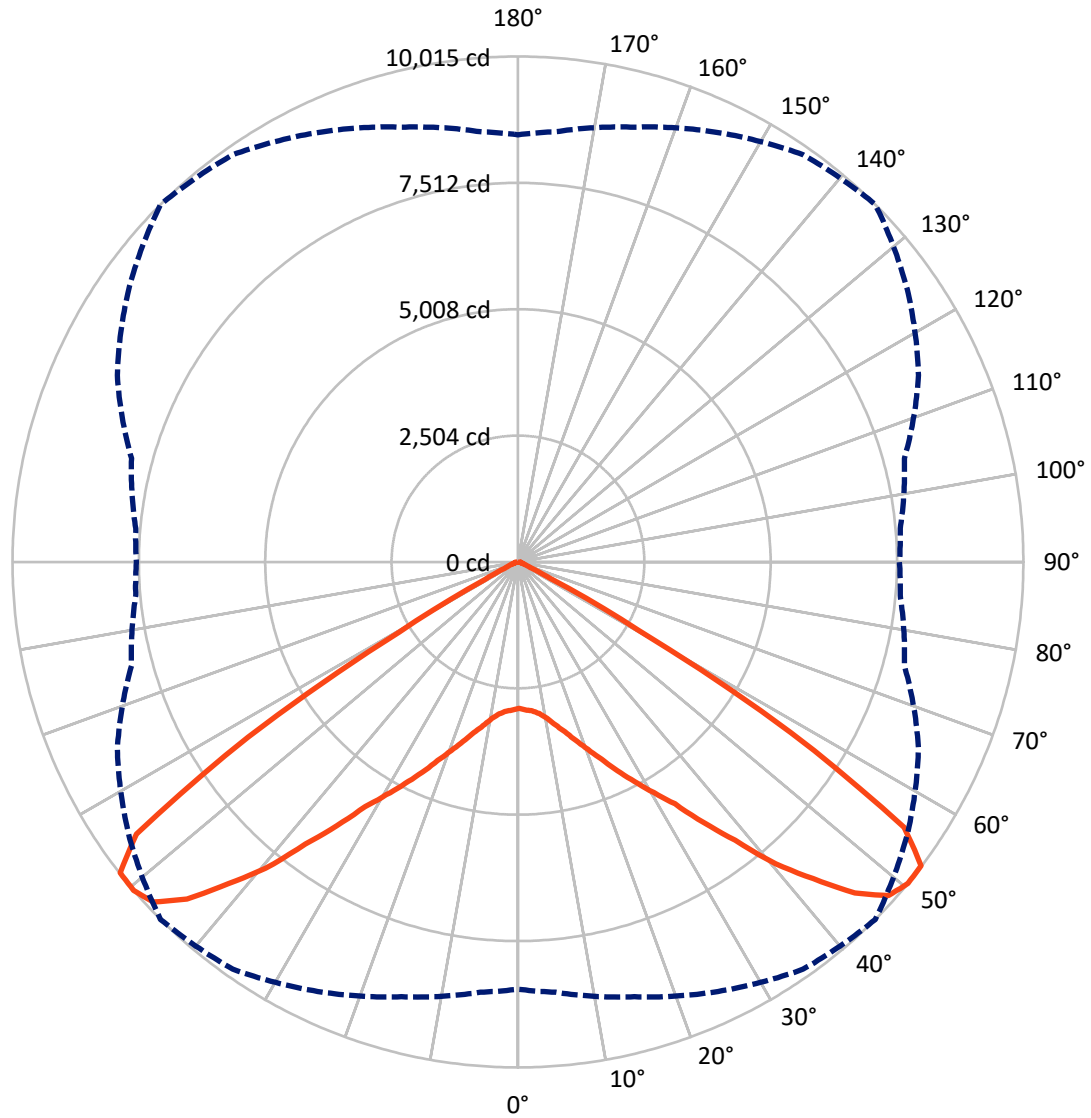
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10469.0	0.0	10469.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10469.0	0.0	10469.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20938.0	0.0	20938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	1.4
10°-20°	995.3	4.8
20°-30°	2032.9	9.7
30°-40°	3876.6	18.5
40°-50°	6532.7	31.2
50°-60°	6230.1	29.8
60°-70°	869.7	4.2
70°-80°	83.2	0.4
80°-90°	28.7	0.1
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°	20938.0	100.0
0°-180°	20938.0	100.0

Coefficient of Utilization

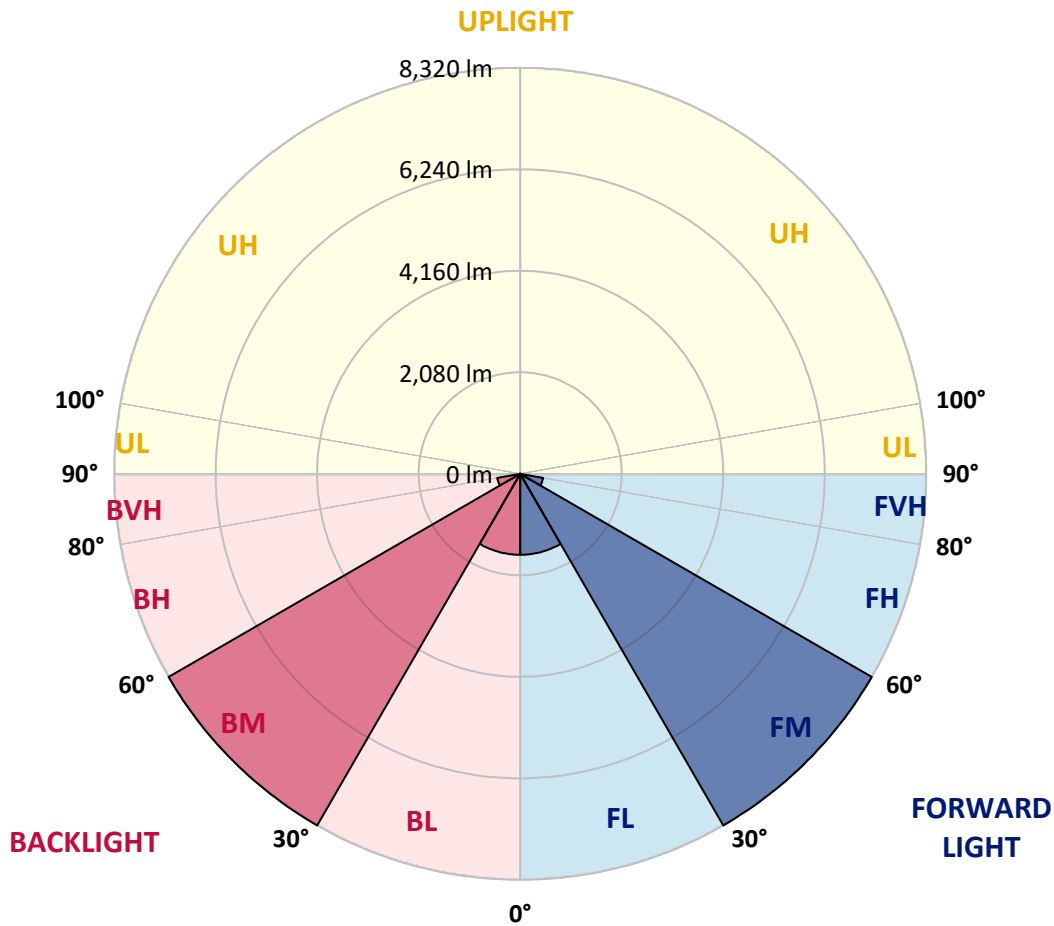


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1658.5	7.9			
FM (30°-60°)	8319.7	39.7			
FH (60°-80°)	476.4	2.3			G0/660
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	1658.5	7.9	B3/2500		
BM (30°-60°)	8319.7	39.7	B4/8500		
BH (60°-80°)	476.4	2.3	B1/500		G0/660
BVH (80°-90°)	14.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8	2902.8
2.5°	2892.3	2892.3	2888.7	2916.9	2902.8	2934.5	2931.0	2941.6	2952.1	2948.6	2976.8
5°	2867.6	2864.1	2864.1	2895.8	2927.5	2962.7	2994.4	3015.6	3050.8	3050.8	3086.0
7.5°	2892.3	2874.6	2899.3	2913.4	2973.3	3033.2	3086.0	3128.3	3209.3	3237.5	3226.9
10°	2899.3	2920.4	2938.1	2980.3	3054.3	3145.9	3191.7	3297.4	3389.0	3452.4	3466.5
12.5°	2945.1	2976.8	3026.1	3128.3	3195.2	3315.0	3378.4	3480.6	3607.4	3677.8	3727.2
15°	3033.2	3043.7	3107.1	3237.5	3381.9	3491.1	3589.8	3663.8	3787.1	3868.1	3871.6
17.5°	3145.9	3191.7	3279.8	3403.1	3554.5	3716.6	3794.1	3875.1	3920.9	4030.1	4054.8
20°	3371.4	3378.4	3463.0	3625.0	3815.2	3963.2	4019.6	4061.8	4044.2	4157.0	4178.1
22.5°	3582.7	3589.8	3695.5	3913.9	4118.2	4245.0	4269.7	4245.0	4192.2	4273.2	4280.3
25°	3797.6	3861.0	3938.5	4157.0	4410.6	4579.7	4583.2	4516.3	4407.1	4421.2	4456.4
27.5°	4132.3	4178.1	4259.1	4459.9	4738.2	4928.5	4896.8	4815.7	4674.8	4685.4	4674.8
30°	4523.3	4565.6	4632.5	4889.7	5094.0	5301.9	5347.7	5270.2	5058.8	5013.0	5065.8
32.5°	4995.4	5055.3	5178.6	5414.6	5587.2	5714.1	5745.8	5717.6	5520.3	5502.7	5537.9
35°	5569.6	5650.6	5763.4	5971.2	6112.1	6341.1	6341.1	6246.0	6066.3	6087.5	6084.0
37.5°	6175.5	6295.3	6471.5	6682.8	6873.1	6996.4	6957.6	6876.6	6696.9	6651.1	6696.9
40°	6936.5	6996.4	7218.3	7493.1	7725.6	7866.5	7700.9	7524.8	7095.0	7161.9	7285.2
42.5°	7630.5	7725.6	7894.7	8197.7	8461.9	8578.1	8380.8	8032.1	7514.2	7461.4	7553.0
45°	8222.3	8324.5	8546.4	8979.7	9258.0	9360.2	8923.4	8359.7	7767.9	7634.0	7672.8
47.5°	8616.9	8669.7	8979.7	9391.9	9645.5	9878.1	9251.0	8585.2	7887.6	7634.0	7619.9
50°	8465.4	8557.0	8919.8	9388.4	9849.9	10015.4	9416.6	8757.8	7926.4	7602.3	7560.0
52.5°	7517.7	7676.3	8081.4	8712.0	9409.5	10001.4	9645.5	8701.4	7912.3	7634.0	7697.4
55°	5231.4	5234.9	5728.1	6658.2	7891.2	9286.2	9310.9	8764.8	8003.9	7831.3	7834.8
57.5°	2103.1	2208.8	2585.8	3519.3	4657.2	6376.3	7581.2	8130.7	8014.5	7972.2	8081.4
60°	531.9	535.5	651.7	993.4	1638.1	2733.7	3970.2	5372.3	6186.1	6464.4	6503.2
62.5°	271.3	274.8	303.0	352.3	447.4	732.8	1303.5	2067.9	2941.6	3385.5	3501.7
65°	221.9	221.9	239.6	264.2	267.7	281.8	338.2	482.6	701.0	796.2	806.7
67.5°	169.1	169.1	183.2	197.3	204.3	200.8	193.8	200.8	243.1	232.5	225.5
70°	105.7	109.2	116.3	130.3	137.4	140.9	144.4	151.5	172.6	179.7	172.6
72.5°	63.4	63.4	66.9	77.5	88.1	95.1	105.7	112.7	123.3	140.9	137.4
75°	28.2	28.2	35.2	45.8	56.4	66.9	77.5	88.1	95.1	105.7	109.2
77.5°	7.0	10.6	17.6	31.7	42.3	56.4	70.5	81.0	88.1	88.1	84.5
80°	3.5	3.5	14.1	24.7	45.8	59.9	77.5	84.5	95.1	88.1	77.5
82.5°	3.5	3.5	14.1	24.7	42.3	59.9	81.0	91.6	98.6	88.1	74.0
85°	0.0	3.5	10.6	21.1	35.2	42.3	35.2	24.7	14.1	14.1	10.6
87.5°	0.0	0.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)