

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: P529114

Luminaire Tested: **GALN-SA4B-730-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17963 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

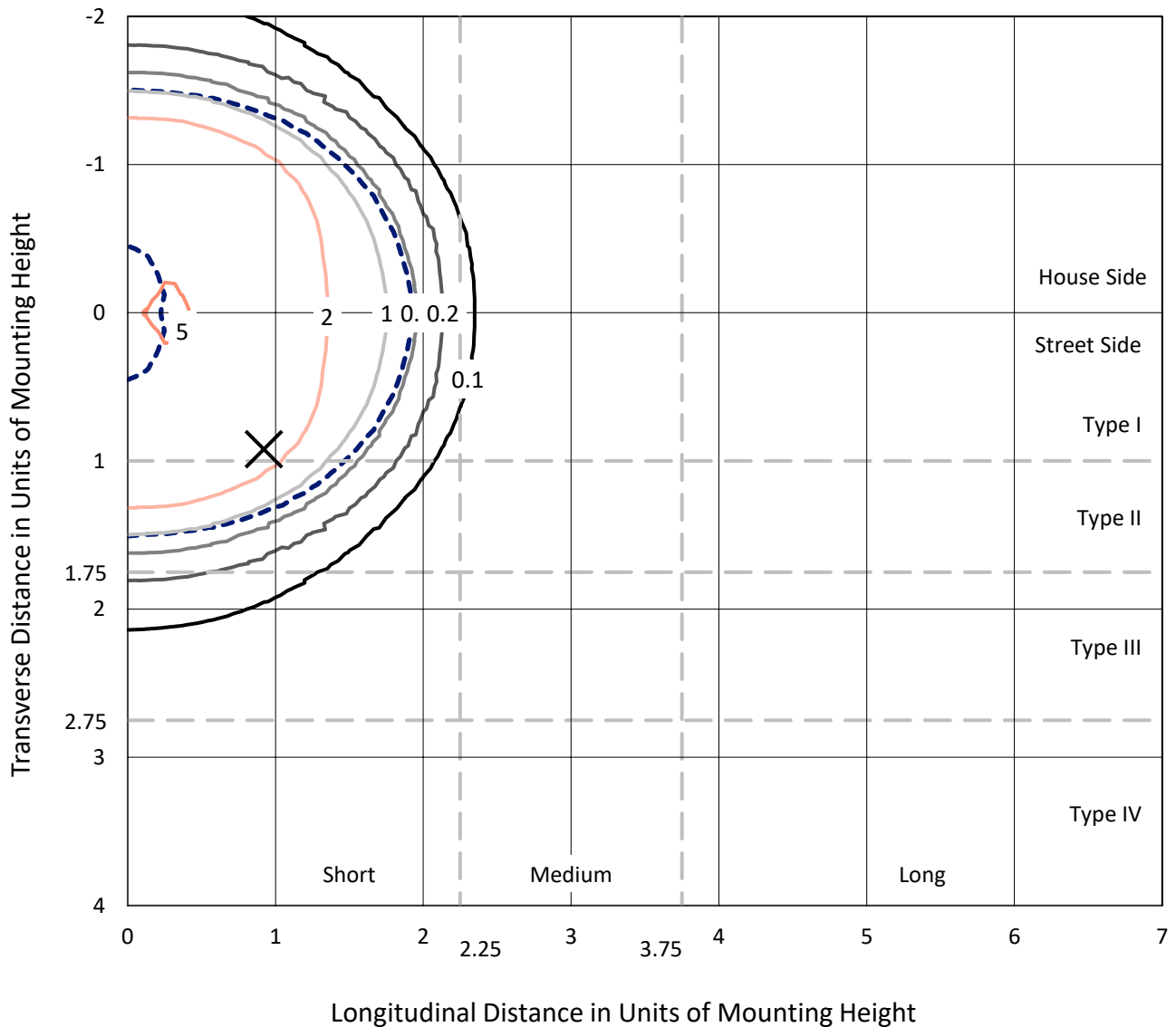
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

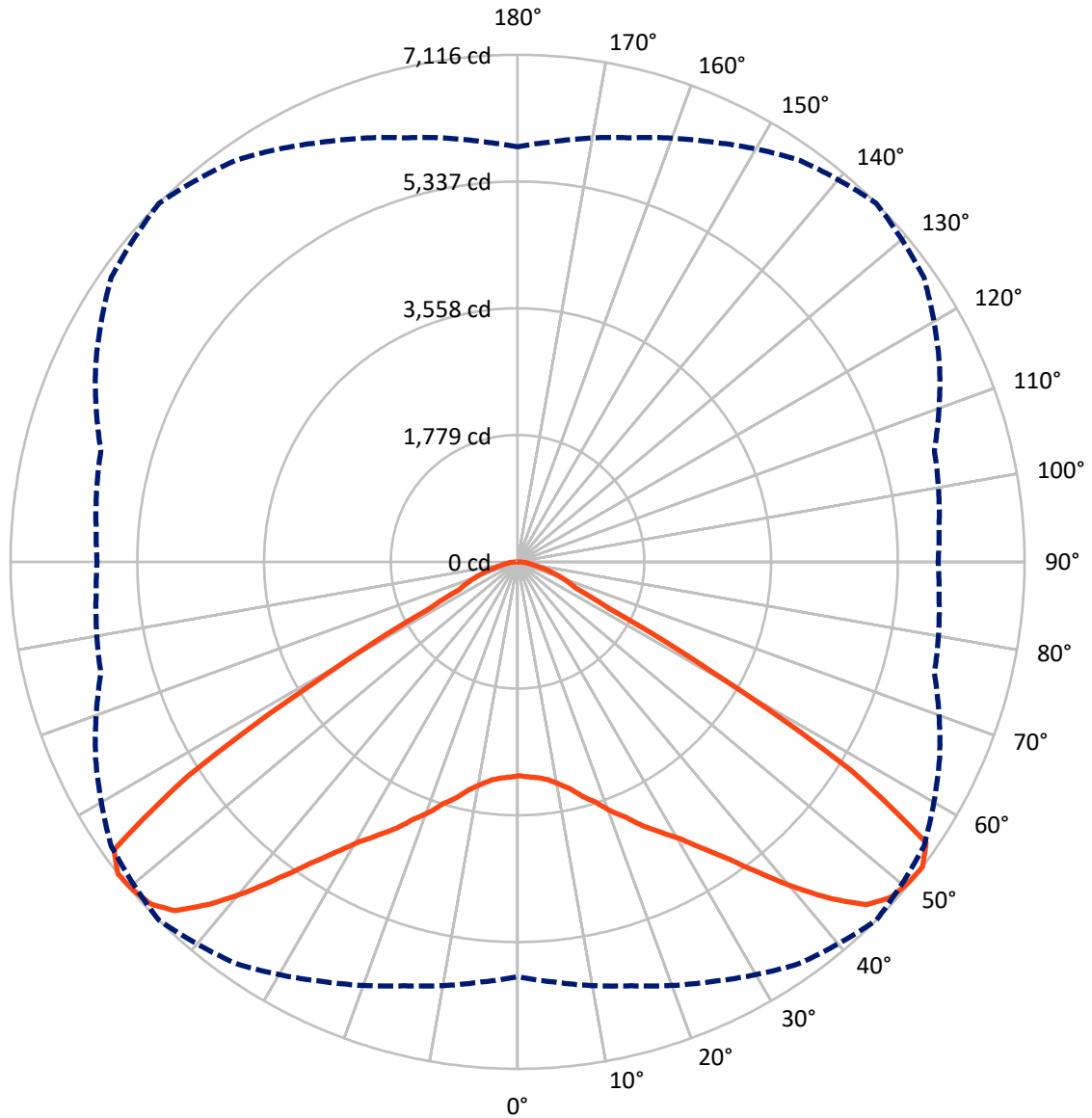
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8981.5	0.0	8981.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8981.5	0.0	8981.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17963.0	0.0	17963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.0	1.6
10°-20°	969.4	5.4
20°-30°	1845.6	10.3
30°-40°	3169.0	17.6
40°-50°	4870.8	27.1
50°-60°	4946.2	27.5
60°-70°	1378.4	7.7
70°-80°	406.6	2.3
80°-90°	81.9	0.5
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°	17963.0	100.0
0°-180°	17963.0	100.0

Coefficient of Utilization

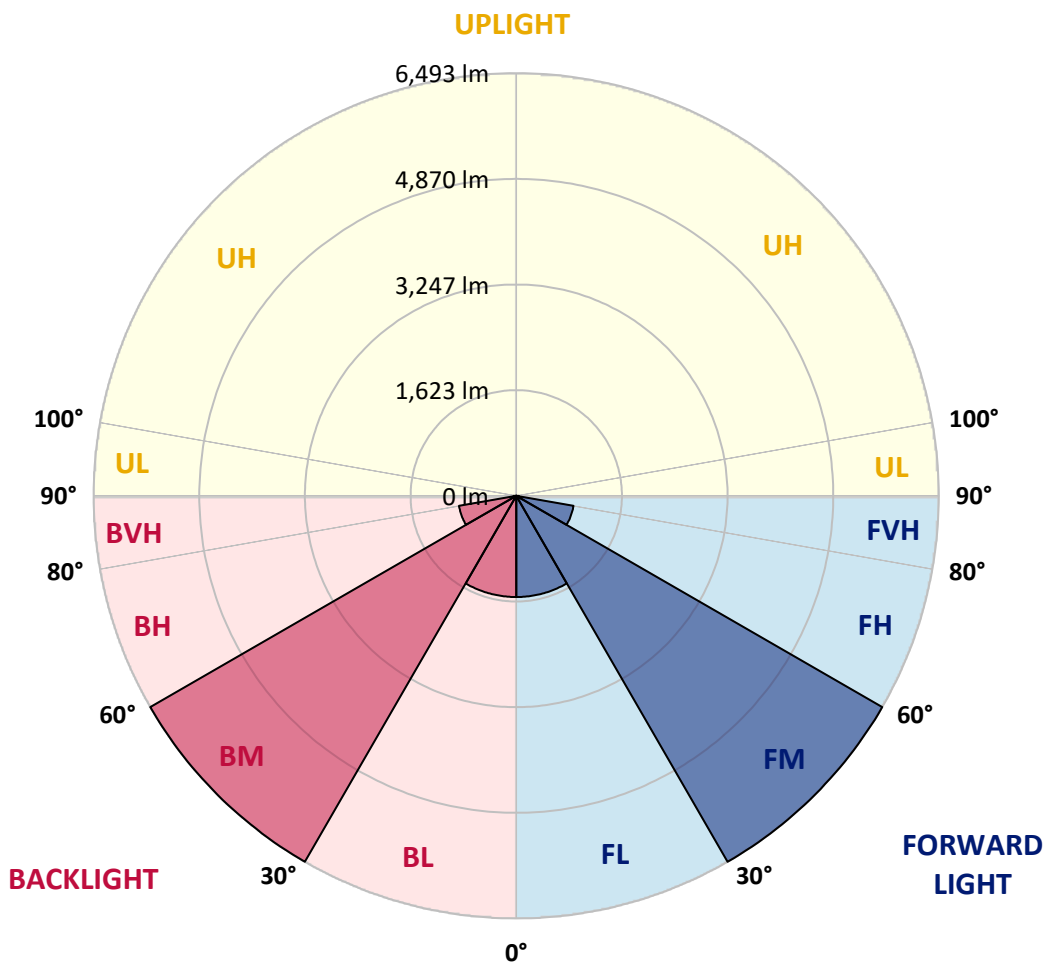


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.0	8.7			
FM (30°-60°)	6493.0	36.1			
FH (60°-80°)	892.5	5.0			G1/1800
FVH (80°-90°)	41.0	0.2			G1/100
BL (0°-30°)	1555.0	8.7	B3/2500		
BM (30°-60°)	6493.0	36.1	B4/8500		
BH (60°-80°)	892.5	5.0	B2/1000		G1/1800
BVH (80°-90°)	41.0	0.2			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°	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8	3002.8
2.5°	3009.4	2978.2	2989.4	2996.1	3025.0	3022.8	3016.1	3025.0	3034.0	3036.2	3031.7
5°	3007.2	2984.9	2993.8	3000.5	3029.5	3045.1	3040.6	3078.5	3105.3	3098.6	3132.0
7.5°	2989.4	3002.8	2991.6	3025.0	3049.6	3087.5	3127.6	3163.3	3196.7	3234.6	3241.3
10°	3029.5	3029.5	3049.6	3076.3	3141.0	3169.9	3227.9	3279.2	3343.8	3388.4	3370.6
12.5°	3071.9	3078.5	3078.5	3147.7	3201.2	3265.8	3319.3	3388.4	3479.8	3533.3	3560.1
15°	3114.2	3118.7	3141.0	3234.6	3314.8	3417.4	3466.4	3528.8	3580.1	3680.4	3682.7
17.5°	3152.1	3176.6	3243.5	3348.3	3448.6	3546.7	3624.7	3689.4	3733.9	3774.1	3765.1
20°	3294.8	3312.6	3381.7	3486.5	3635.8	3731.7	3758.5	3769.6	3798.6	3878.8	3854.3
22.5°	3433.0	3439.7	3504.3	3664.8	3769.6	3896.7	3925.6	3919.0	3930.1	3950.2	3985.8
25°	3575.7	3586.8	3676.0	3812.0	3959.1	4110.7	4135.2	4083.9	4068.3	4090.6	4092.8
27.5°	3758.5	3760.7	3874.4	3992.5	4159.7	4302.4	4340.3	4300.2	4226.6	4244.4	4273.4
30°	3990.3	3974.7	4088.4	4257.8	4433.9	4514.2	4578.8	4558.7	4478.5	4462.9	4438.4
32.5°	4257.8	4262.3	4364.8	4549.8	4665.7	4799.5	4868.6	4835.2	4783.9	4757.1	4772.7
35°	4634.5	4654.6	4723.7	4877.5	5064.8	5131.7	5240.9	5169.5	5035.8	5069.2	5098.2
37.5°	4944.4	5002.4	5131.7	5314.4	5425.9	5548.5	5588.6	5492.8	5394.7	5354.6	5450.4
40°	5419.2	5401.4	5544.1	5726.9	5891.8	6014.4	5963.1	5867.3	5624.3	5626.5	5653.3
42.5°	5827.2	5836.1	5945.3	6163.8	6388.9	6464.7	6302.0	6067.9	5798.2	5769.2	5827.2
45°	6170.5	6206.1	6268.6	6560.6	6781.3	6863.8	6562.8	6286.4	5925.3	5804.9	5900.7
47.5°	6293.1	6351.0	6487.0	6754.5	6973.0	7039.9	6799.1	6402.3	6043.4	5847.2	5898.5
50°	6310.9	6290.8	6513.8	6759.0	6950.7	7095.6	6883.8	6487.0	6014.4	5911.9	5896.3
52.5°	5822.7	5920.8	6159.3	6495.9	6883.8	7115.7	6959.6	6533.8	6054.5	5938.6	5900.7
55°	4712.6	4596.6	5031.3	5597.6	6310.9	6955.1	6932.9	6558.3	6079.1	5983.2	5931.9
57.5°	2630.5	2663.9	2909.1	3524.4	4445.1	5515.1	6163.8	6299.8	6067.9	6012.2	6038.9
60°	1217.2	1228.3	1333.1	1620.6	2191.3	3127.6	3981.4	4848.5	5247.6	5327.8	5327.8
62.5°	907.3	902.8	929.6	980.9	1101.2	1437.8	1919.4	2608.2	3156.6	3540.0	3640.3
65°	820.4	818.1	831.5	849.3	858.2	905.1	1012.1	1223.8	1402.2	1504.7	1486.9
67.5°	717.8	715.6	720.0	731.2	746.8	771.3	798.1	842.6	905.1	900.6	889.5
70°	579.6	579.6	586.3	595.2	613.0	642.0	673.2	704.4	757.9	769.1	766.8
72.5°	428.0	421.3	434.7	452.5	470.4	506.0	539.5	568.4	606.3	617.5	613.0
75°	272.0	276.4	285.3	305.4	336.6	361.1	396.8	421.3	445.8	454.8	457.0
77.5°	151.6	156.0	171.6	196.2	227.4	254.1	285.3	305.4	321.0	323.2	325.5
80°	91.4	93.6	109.2	131.5	158.3	187.3	211.8	231.8	245.2	238.5	236.3
82.5°	55.7	58.0	71.3	91.4	113.7	136.0	162.7	180.6	193.9	185.0	176.1
85°	29.0	31.2	42.4	55.7	73.6	84.7	84.7	75.8	73.6	69.1	66.9
87.5°	8.9	8.9	11.1	13.4	11.1	13.4	15.6	17.8	17.8	20.1	17.8
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)