

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: P651283

Luminaire Tested: **GALN-SA3D-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651283
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-SA3D-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20037.7 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

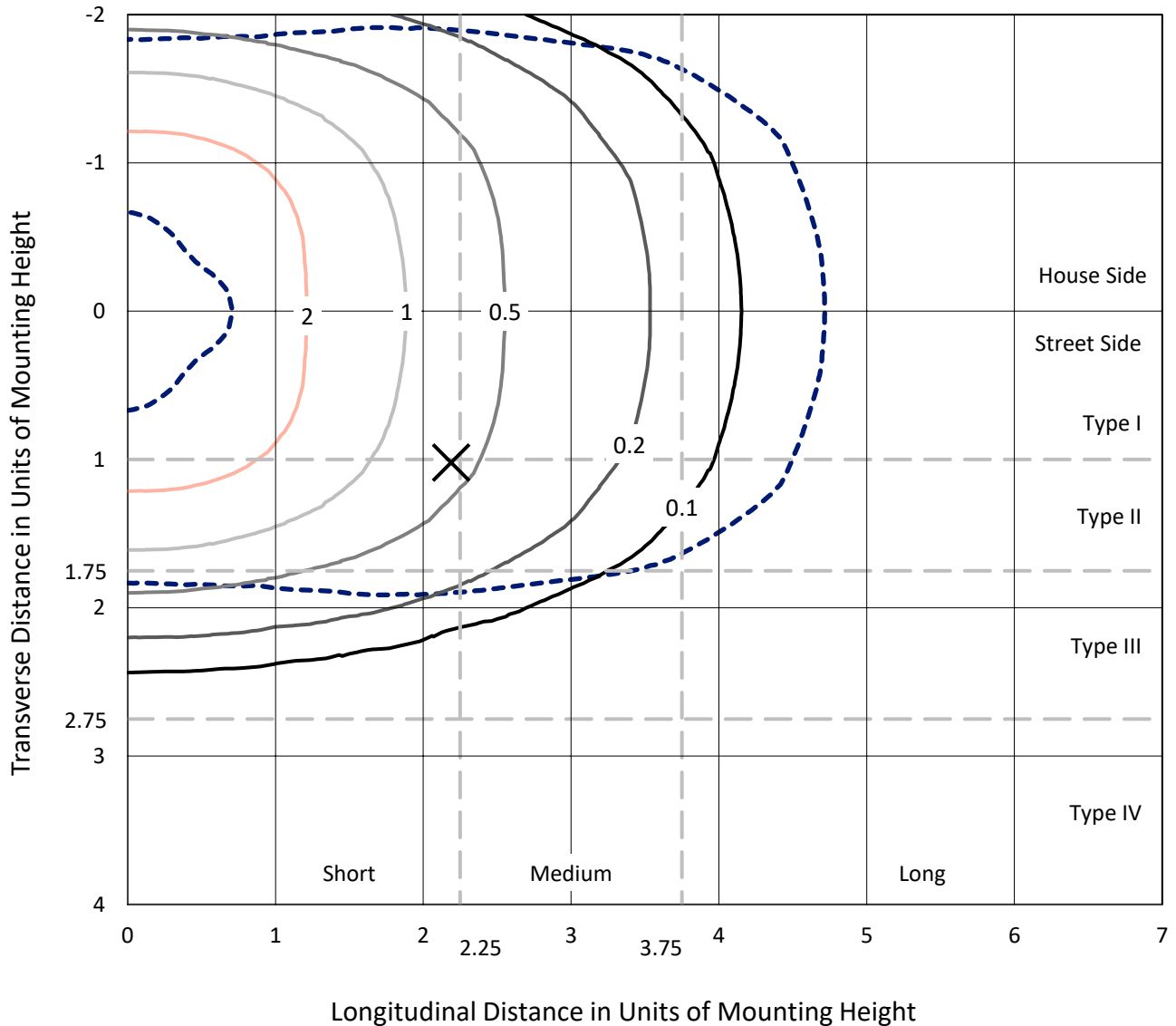
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

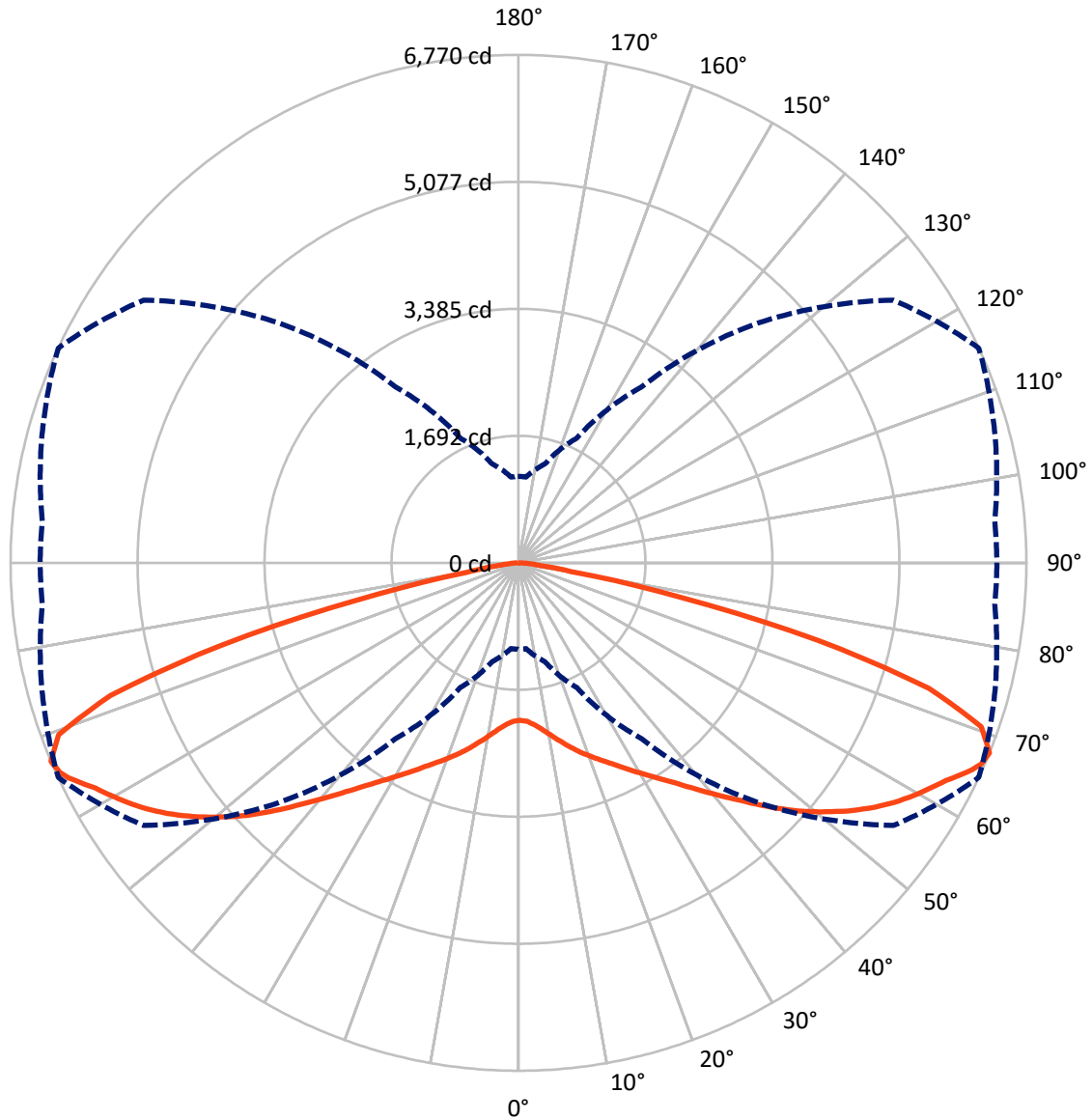
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	10018.8	0.0	10018.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10018.8	0.0	10018.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	20037.7	0.0	20037.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.0	1.0
10°-20°	692.8	3.5
20°-30°	1355.2	6.8
30°-40°	2304.9	11.5
40°-50°	3648.0	18.2
50°-60°	4837.2	24.1
60°-70°	4563.0	22.8
70°-80°	2255.7	11.3
80°-90°	173.8	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°	20037.7	100.0
0°-180°	20037.7	100.0

Coefficient of Utilization

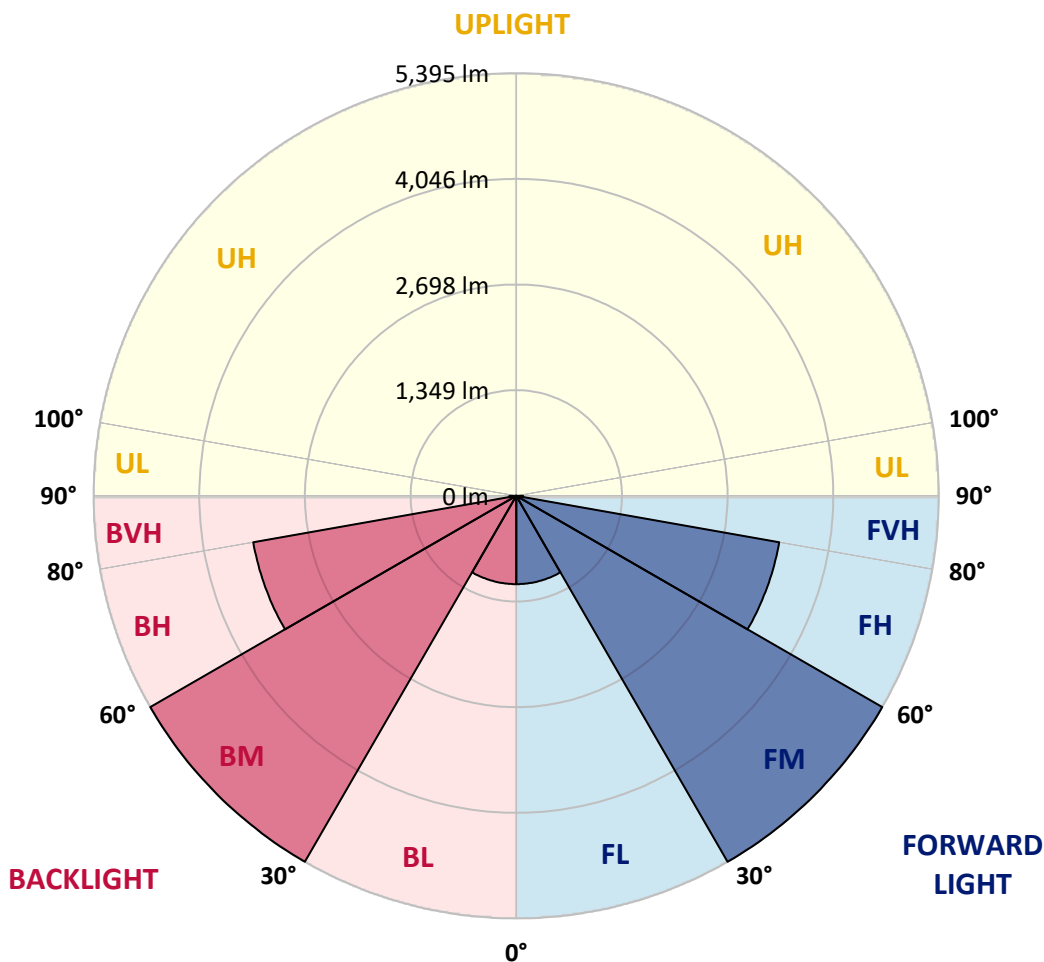


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.5	5.6			
FM (30°-60°)	5395.1	26.9			
FH (60°-80°)	3409.3	17.0			G2/5000
FVH (80°-90°)	86.9	0.4			G1/100
BL (0°-30°)	1127.5	5.6	B3/2500		
BM (30°-60°)	5395.1	26.9	B4/8500		
BH (60°-80°)	3409.3	17.0	B4/5000		G4/5000
BVH (80°-90°)	86.9	0.4			G1/100
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°	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8	2098.8
2.5°	2088.0	2090.2	2092.3	2095.5	2099.8	2106.3	2110.6	2113.8	2122.3	2123.4	2122.3
5°	2080.5	2082.7	2088.0	2097.7	2111.7	2131.0	2146.0	2164.2	2178.2	2187.9	2185.8
7.5°	2079.5	2083.7	2092.3	2112.8	2139.6	2172.8	2207.2	2238.3	2265.1	2286.7	2283.4
10°	2096.6	2102.0	2116.0	2146.0	2187.9	2236.2	2284.5	2330.7	2369.3	2397.2	2406.9
12.5°	2125.6	2129.9	2155.7	2200.7	2260.9	2321.0	2375.7	2432.7	2486.3	2533.5	2533.5
15°	2176.1	2183.6	2215.8	2281.3	2355.3	2425.1	2481.0	2541.1	2599.0	2652.7	2668.8
17.5°	2245.8	2256.6	2304.9	2388.6	2483.1	2547.5	2600.1	2649.5	2699.9	2751.5	2759.0
20°	2341.4	2352.1	2416.5	2517.4	2629.1	2706.4	2741.8	2753.6	2778.3	2827.7	2834.2
22.5°	2471.3	2482.0	2553.9	2667.7	2792.3	2876.1	2891.0	2863.1	2856.7	2895.3	2899.6
25°	2618.4	2628.0	2710.7	2833.1	2961.9	3053.2	3048.9	2980.2	2941.5	2965.1	2971.6
27.5°	2783.7	2797.7	2881.4	3008.1	3147.6	3228.1	3215.2	3115.4	3032.7	3028.4	3030.6
30°	2995.1	3010.2	3089.7	3210.9	3348.4	3422.4	3395.6	3261.4	3133.7	3090.8	3090.8
32.5°	3218.5	3256.0	3336.6	3463.2	3570.5	3624.3	3583.5	3422.4	3252.8	3192.7	3189.5
35°	3509.4	3529.8	3609.2	3732.7	3813.2	3855.1	3776.7	3603.9	3408.5	3337.6	3328.0
37.5°	3793.9	3811.1	3903.4	4021.5	4119.1	4117.0	4010.7	3819.7	3601.8	3522.3	3515.8
40°	4084.8	4103.1	4208.3	4316.7	4414.4	4405.8	4277.0	4063.4	3831.4	3742.4	3759.5
42.5°	4337.1	4357.5	4476.6	4631.2	4719.3	4717.2	4567.9	4327.4	4085.9	4006.4	4021.5
45°	4566.8	4585.0	4723.6	4900.7	5029.5	5045.7	4882.4	4628.0	4380.0	4278.1	4282.4
47.5°	4728.9	4763.3	4908.2	5111.1	5286.1	5343.0	5183.1	4934.0	4648.5	4542.2	4548.5
50°	4852.4	4873.8	5031.7	5262.5	5483.7	5601.7	5472.9	5217.4	4916.8	4804.1	4819.1
52.5°	4867.5	4893.2	5064.9	5331.2	5614.6	5793.9	5730.6	5494.3	5190.6	5074.6	5106.8
55°	4745.0	4760.1	4965.1	5288.3	5666.2	5936.7	5952.8	5752.0	5451.4	5363.4	5384.8
57.5°	4396.2	4434.8	4694.5	5087.5	5595.3	6012.9	6119.2	5986.1	5715.5	5628.6	5663.0
60°	3823.9	3862.6	4123.4	4621.5	5328.0	5977.5	6256.6	6193.2	5955.0	5885.1	5903.4
62.5°	2996.2	2993.0	3316.1	3927.0	4796.6	5803.6	6358.5	6392.9	6191.1	6103.1	6131.0
65°	1942.0	1951.7	2264.1	2922.1	3994.7	5361.3	6381.1	6647.3	6423.0	6289.8	6310.3
66°	1562.0	1591.0	1856.2	2462.7	3585.6	5071.4	6313.5	6722.5	6493.9	6332.8	6342.5
67.5°	1153.0	1147.6	1365.5	1833.6	2863.1	4520.7	6102.0	6769.7	6574.3	6371.4	6375.8
70°	658.1	657.0	734.3	1007.0	1683.3	3183.0	5143.3	6543.2	6737.5	6511.0	6499.2
72.5°	481.0	477.7	488.5	556.1	821.2	1607.1	3548.0	5718.7	6653.8	6488.5	6455.2
75°	403.7	401.5	399.4	408.0	460.5	727.9	1883.0	4113.8	5773.5	6090.2	6055.9
77.5°	329.6	329.6	330.7	328.5	330.7	383.2	780.4	2205.0	3515.8	3924.9	4020.4
80°	257.7	256.6	274.8	267.3	250.1	245.8	345.7	709.6	1167.0	1160.5	957.6
82.5°	190.0	177.1	209.3	203.9	184.7	156.8	201.8	302.8	389.7	253.4	187.9
85°	120.3	119.2	148.2	135.2	112.7	74.1	96.6	129.9	161.1	97.7	79.5
87.5°	21.4	20.4	47.3	34.3	34.3	21.4	26.8	35.4	52.6	36.5	26.8
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)