

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: P651282

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651282
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-SA3D-840-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA 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: 17017.6 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

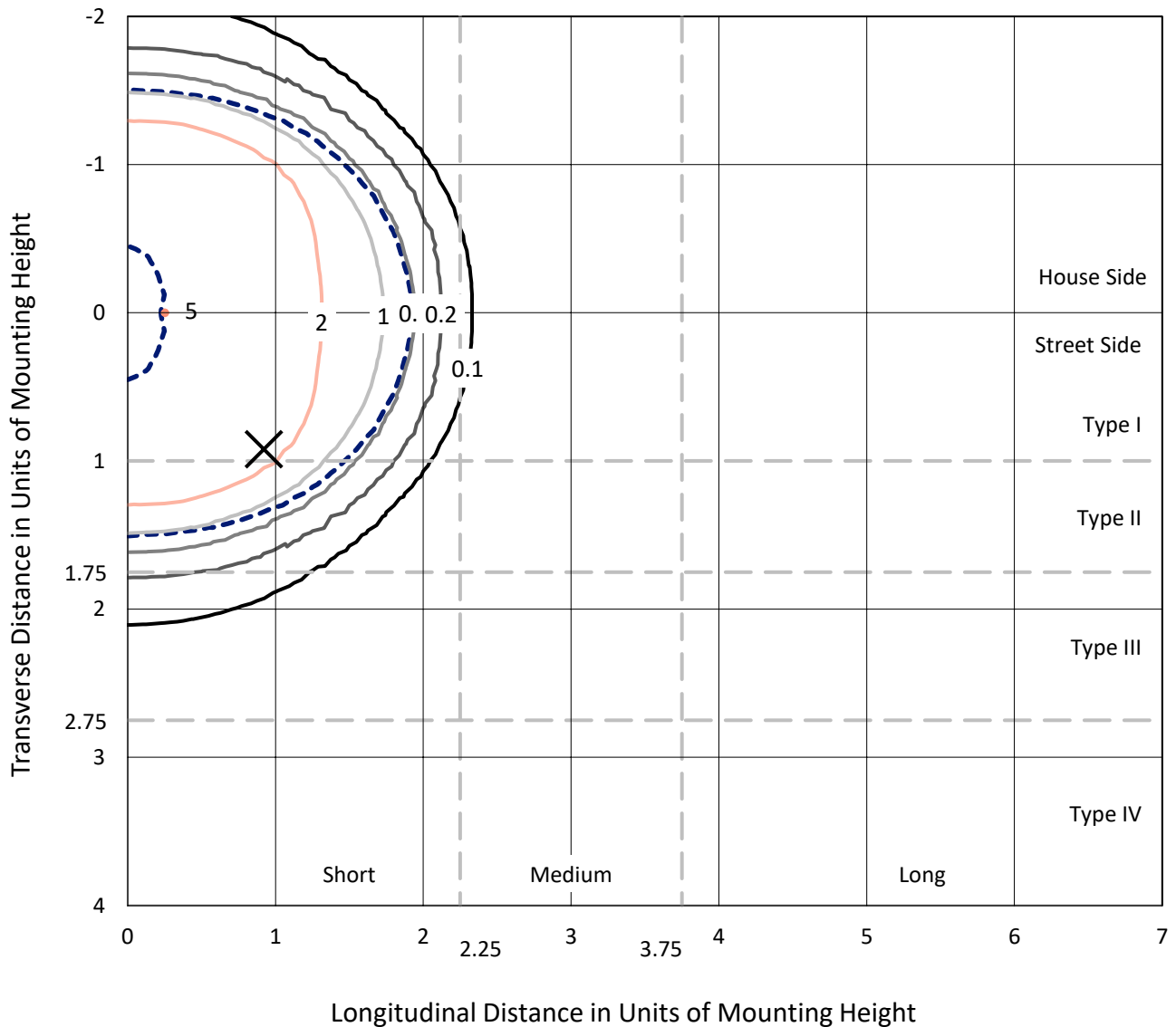
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

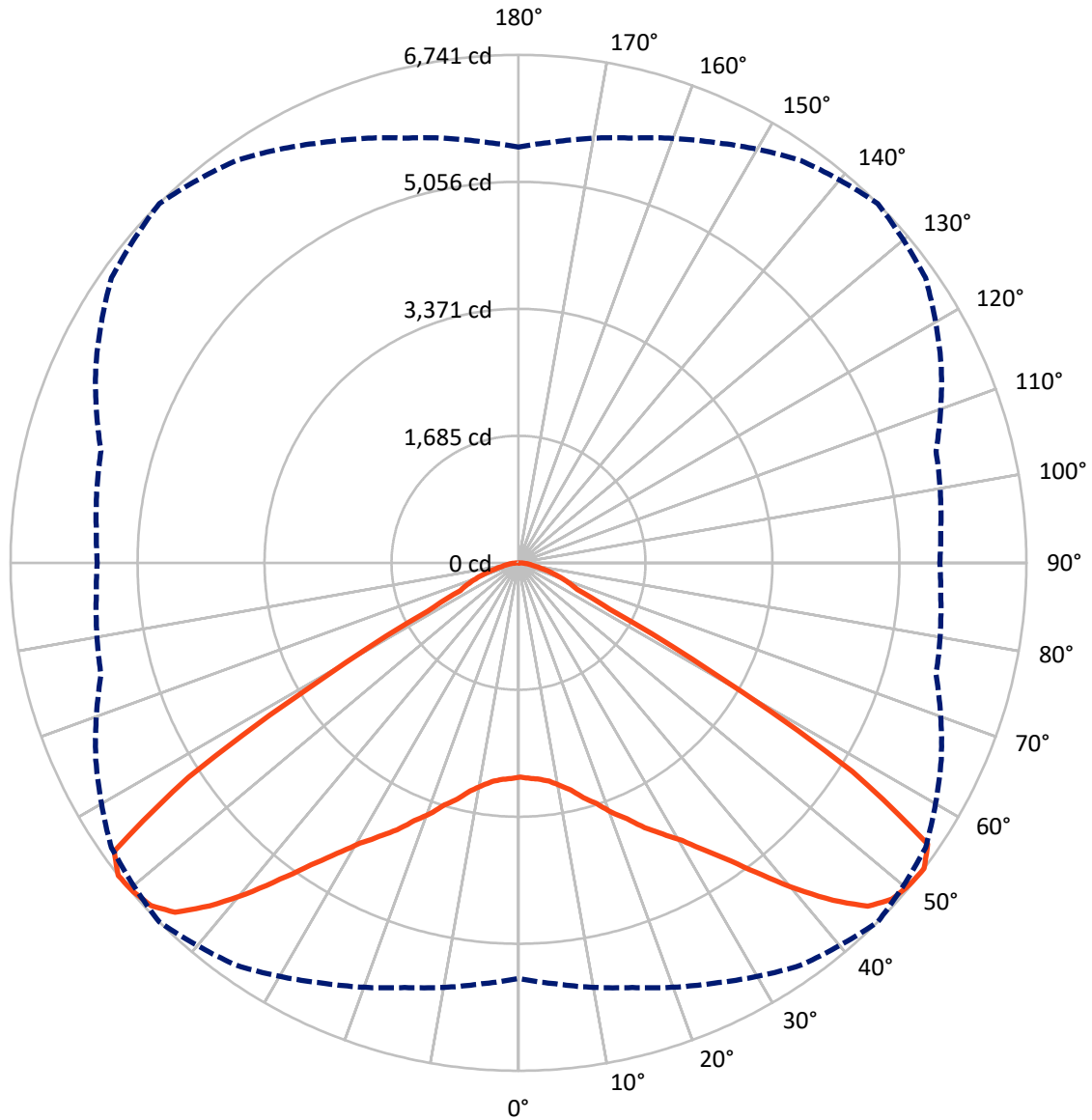
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	8508.8	0.0	8508.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8508.8	0.0	8508.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	17017.6	0.0	17017.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	1.6
10°-20°	918.4	5.4
20°-30°	1748.4	10.3
30°-40°	3002.2	17.6
40°-50°	4614.5	27.1
50°-60°	4685.9	27.5
60°-70°	1305.9	7.7
70°-80°	385.2	2.3
80°-90°	77.6	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°	17017.6	100.0
0°-180°	17017.6	100.0

Coefficient of Utilization

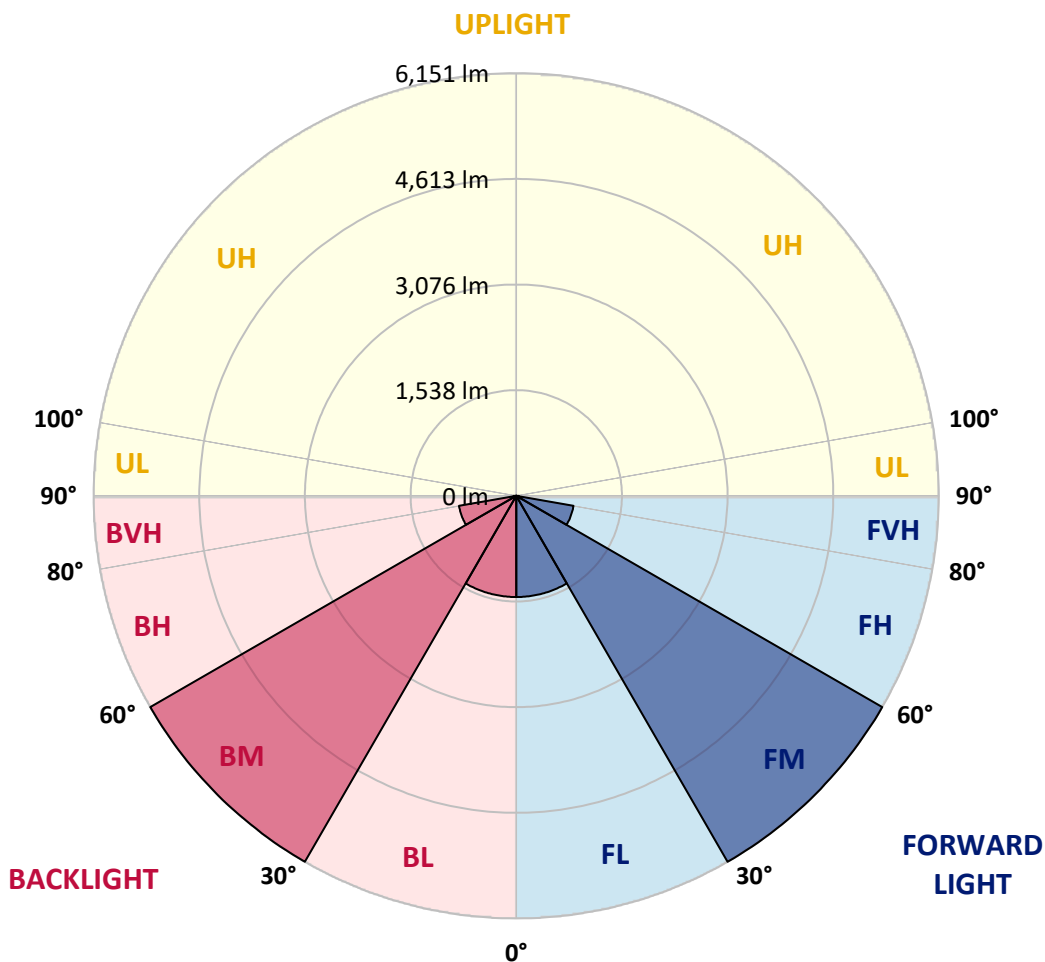


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1473.1	8.7			
FM (30°-60°)	6151.3	36.1			
FH (60°-80°)	845.6	5.0			G1/1800
FVH (80°-90°)	38.8	0.2			G1/100
BL (0°-30°)	1473.1	8.7	B3/2500		
BM (30°-60°)	6151.3	36.1	B4/8500		
BH (60°-80°)	845.6	5.0	B2/1000		G1/1800
BVH (80°-90°)	38.8	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°	2844.7	2844.7	2844.7	2844.7	2844.7	2844.7	2844.7	2844.7	2844.7	2844.7	2844.7
2.5°	2851.1	2821.5	2832.1	2838.4	2865.9	2863.7	2857.4	2865.9	2874.3	2876.4	2872.2
5°	2849.0	2827.9	2836.3	2842.6	2870.1	2884.9	2880.6	2916.5	2941.9	2935.5	2967.2
7.5°	2832.1	2844.7	2834.2	2865.9	2889.1	2925.0	2963.0	2996.8	3028.4	3064.4	3070.7
10°	2870.1	2870.1	2889.1	2914.4	2975.6	3003.1	3058.0	3106.6	3167.9	3210.1	3193.2
12.5°	2910.2	2916.5	2916.5	2982.0	3032.6	3094.0	3144.6	3210.1	3296.6	3347.3	3372.7
15°	2950.3	2954.5	2975.6	3064.4	3140.4	3237.5	3284.0	3343.1	3391.7	3486.7	3488.9
17.5°	2986.2	3009.4	3072.8	3172.1	3267.1	3360.0	3434.0	3495.2	3537.4	3575.4	3567.0
20°	3121.4	3138.3	3203.7	3303.0	3444.5	3535.3	3560.6	3571.2	3598.6	3674.7	3651.5
22.5°	3252.3	3258.6	3319.9	3472.0	3571.2	3691.6	3719.1	3712.7	3723.3	3742.3	3776.1
25°	3387.5	3398.1	3482.5	3611.3	3750.7	3894.3	3917.5	3869.0	3854.2	3875.3	3877.4
27.5°	3560.6	3562.7	3670.5	3782.4	3940.8	4076.0	4111.8	4073.8	4004.2	4021.1	4048.5
30°	3780.3	3765.5	3873.2	4033.7	4200.5	4276.6	4337.8	4318.8	4242.8	4228.0	4204.7
32.5°	4033.7	4038.0	4135.1	4310.4	4420.2	4547.0	4612.4	4580.7	4532.1	4506.8	4521.6
35°	4390.6	4409.6	4475.1	4620.8	4798.2	4861.6	4965.1	4897.5	4770.7	4802.4	4829.9
37.5°	4684.2	4739.1	4861.6	5034.7	5140.4	5256.5	5294.5	5203.7	5110.8	5072.7	5163.6
40°	5134.1	5117.1	5252.3	5425.5	5581.7	5697.9	5649.3	5558.5	5328.3	5330.4	5355.7
42.5°	5520.5	5528.9	5632.4	5839.4	6052.7	6124.5	5970.3	5748.6	5493.1	5465.6	5520.5
45°	5845.7	5879.5	5938.6	6215.3	6424.4	6502.5	6217.4	5955.5	5613.4	5499.4	5590.2
47.5°	5961.8	6016.8	6145.6	6399.0	6606.0	6669.4	6441.3	6065.4	5725.4	5539.5	5588.1
50°	5978.8	5959.7	6170.9	6403.3	6584.9	6722.2	6521.5	6145.6	5697.9	5600.7	5585.9
52.5°	5516.3	5609.2	5835.2	6154.1	6521.5	6741.2	6593.4	6189.9	5735.9	5626.1	5590.2
55°	4464.5	4354.7	4766.5	5302.9	5978.8	6589.2	6568.0	6213.2	5759.2	5668.3	5619.7
57.5°	2492.1	2523.7	2756.0	3338.9	4211.1	5224.8	5839.4	5968.2	5748.6	5695.8	5721.2
60°	1153.1	1163.7	1262.9	1535.3	2076.0	2963.0	3771.9	4593.4	4971.4	5047.4	5047.4
62.5°	859.5	855.3	880.7	929.2	1043.3	1362.2	1818.3	2470.9	2990.4	3353.7	3448.7
65°	777.2	775.1	787.8	804.7	813.1	857.4	958.8	1159.4	1328.4	1425.5	1408.7
67.5°	680.0	677.9	682.1	692.7	707.4	730.7	756.1	798.3	857.4	853.2	842.7
70°	549.1	549.1	555.4	563.9	580.8	608.2	637.8	667.3	718.0	728.6	726.5
72.5°	405.4	399.1	411.8	428.7	445.6	479.4	511.1	538.5	574.4	585.0	580.8
75°	257.7	261.9	270.3	289.3	318.9	342.1	375.9	399.1	422.4	430.8	432.9
77.5°	143.6	147.8	162.6	185.9	215.4	240.8	270.3	289.3	304.1	306.2	308.3
80°	86.6	88.7	103.4	124.6	150.0	177.4	200.7	219.7	232.3	226.0	223.9
82.5°	52.8	54.9	67.6	86.6	107.7	128.8	154.2	171.1	183.8	175.3	166.9
85°	27.4	29.6	40.1	52.8	69.7	80.2	80.2	71.8	69.7	65.4	63.3
87.5°	8.4	8.4	10.6	12.7	10.6	12.7	14.8	16.9	16.9	19.0	16.9
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)