

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: P651273

Luminaire Tested: **GALN-SA3D-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
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-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20269 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

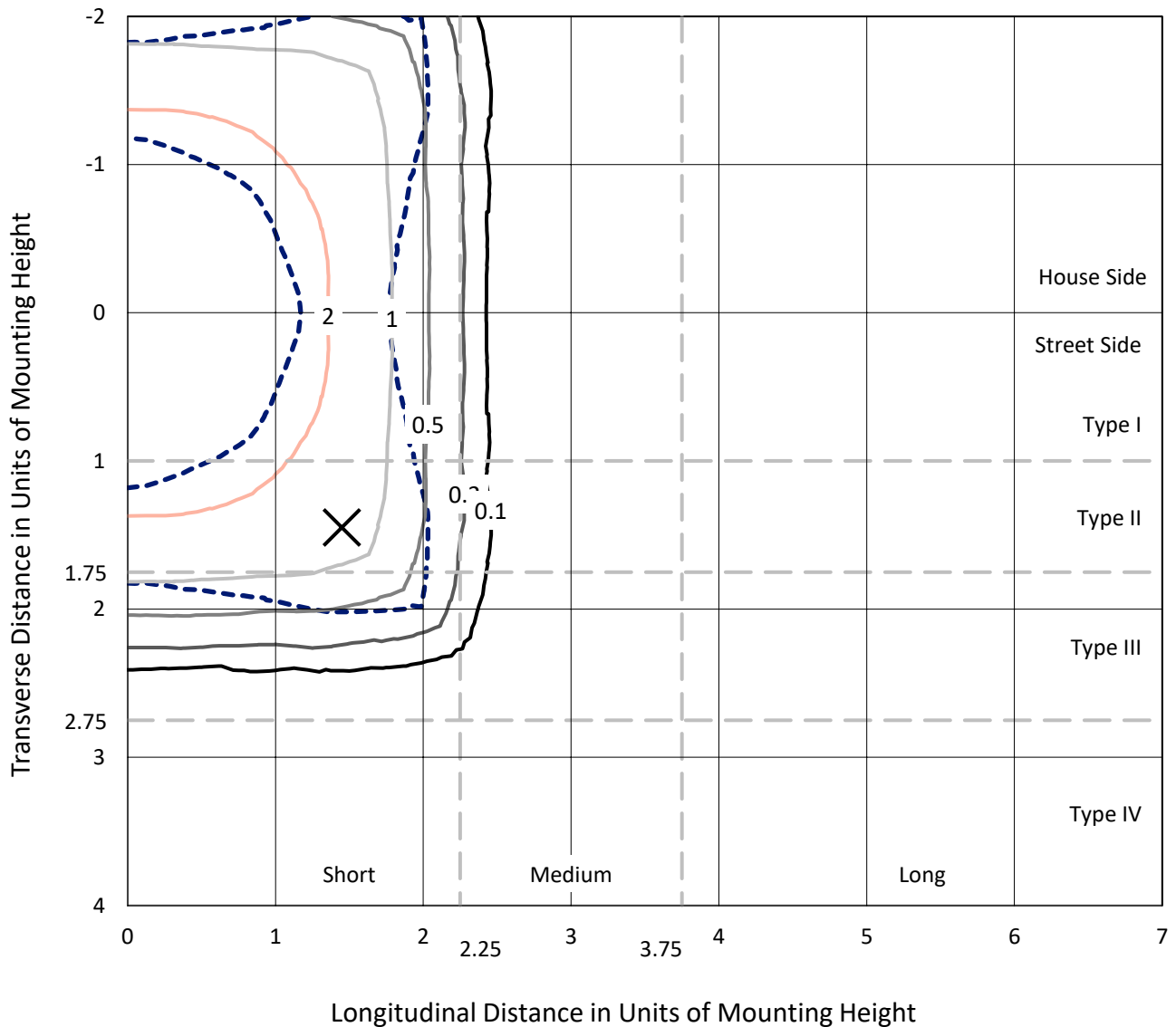
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

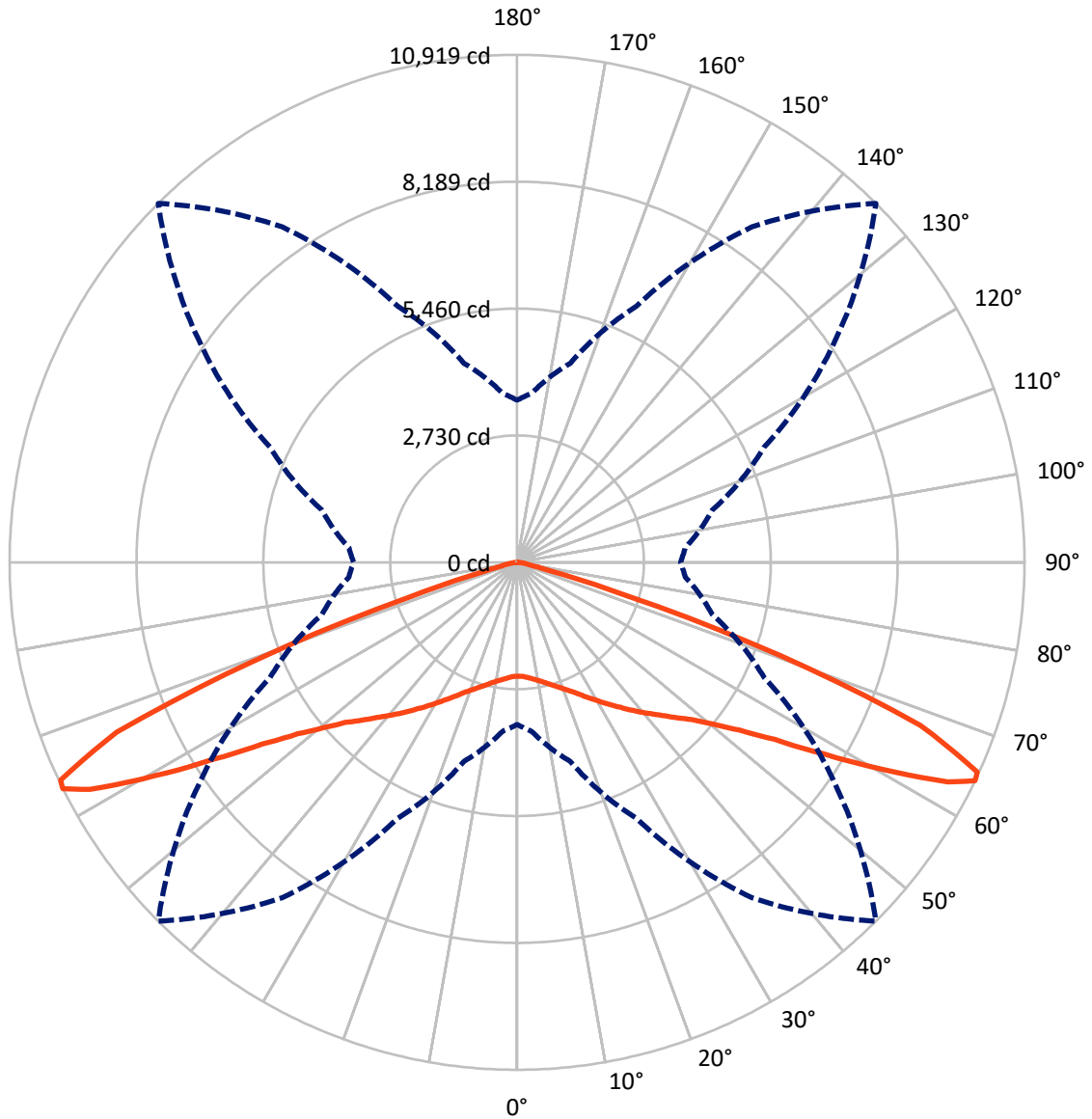
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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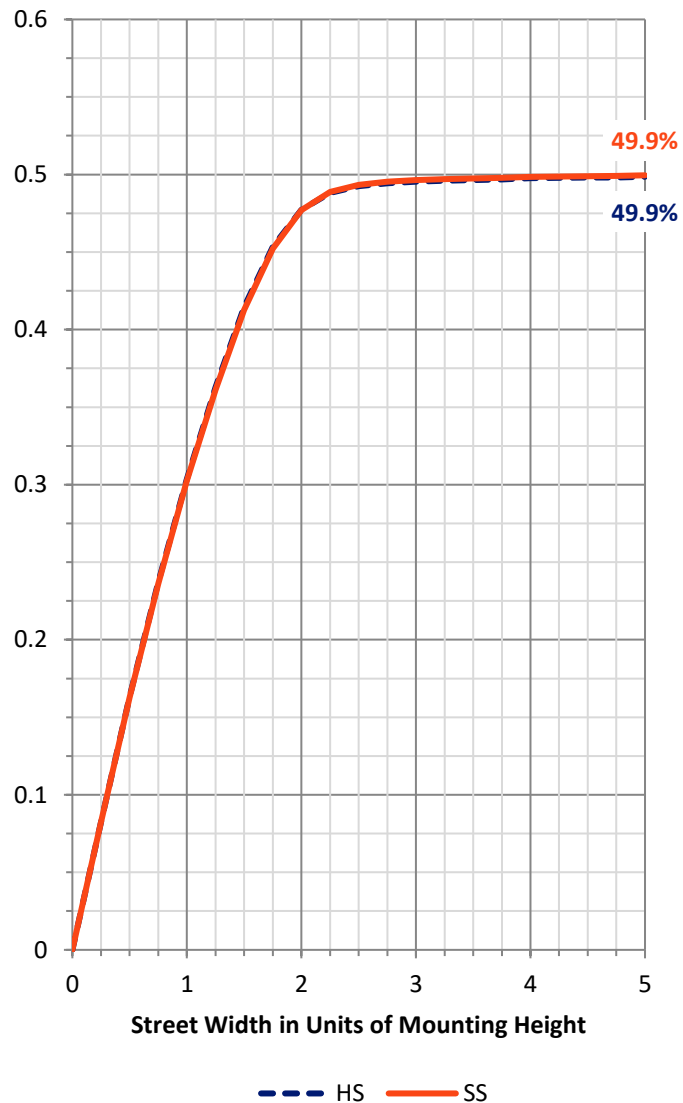
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10134.5	0.0	10134.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10134.5	0.0	10134.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20269.0	0.0	20269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	1.2
10°-20°	776.3	3.8
20°-30°	1467.1	7.2
30°-40°	2429.6	12.0
40°-50°	3793.1	18.7
50°-60°	5864.0	28.9
60°-70°	5056.5	24.9
70°-80°	573.0	2.8
80°-90°	68.7	0.3
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°	20269.0	100.0
0°-180°	20269.0	100.0

Coefficient of Utilization



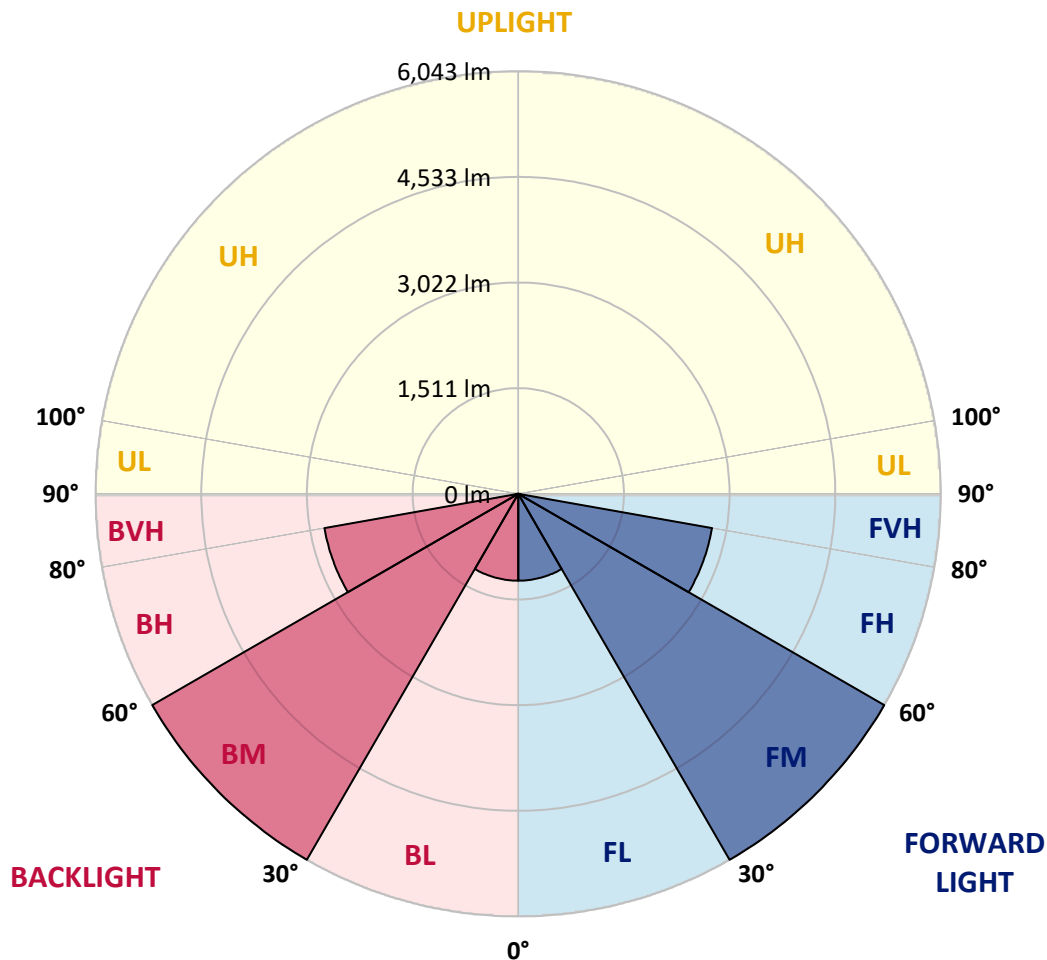
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1242.1	6.1			
FM (30°-60°)	6043.4	29.8			
FH (60°-80°)	2814.7	13.9			G2/5000
FVH (80°-90°)	34.3	0.2			G1/100
BL (0°-30°)	1242.1	6.1	B3/2500		
BM (30°-60°)	6043.4	29.8	B4/8500		
BH (60°-80°)	2814.7	13.9	B4/5000		G2/5000
BVH (80°-90°)	34.3	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2449.8	2449.8	2449.8	2449.8	2449.8	2449.8	2449.8	2449.8	2449.8	2449.8	2449.8
2.5°	2459.5	2464.9	2460.6	2459.5	2458.4	2458.4	2458.4	2459.5	2463.8	2467.0	2464.9
5°	2490.6	2494.9	2492.8	2491.7	2490.6	2491.7	2489.5	2488.5	2491.7	2491.7	2490.6
7.5°	2529.3	2534.7	2532.5	2534.7	2535.7	2536.8	2531.4	2527.1	2526.0	2529.3	2527.1
10°	2581.9	2586.2	2587.3	2588.3	2590.4	2589.4	2583.0	2575.5	2574.4	2573.3	2572.2
12.5°	2640.9	2644.2	2645.2	2649.5	2652.8	2653.8	2646.3	2639.9	2629.1	2631.2	2626.9
15°	2707.5	2713.9	2712.9	2719.3	2727.9	2730.1	2722.5	2711.8	2702.1	2696.8	2693.6
17.5°	2789.1	2793.4	2791.2	2797.7	2808.4	2813.8	2807.3	2793.4	2783.7	2771.9	2765.5
20°	2885.7	2893.2	2895.4	2895.4	2905.1	2910.4	2900.7	2896.4	2881.4	2872.9	2867.5
22.5°	2995.2	2998.4	3004.9	3011.3	3021.0	3018.9	3015.6	3009.2	2995.2	2987.7	2979.1
25°	3118.7	3121.9	3138.0	3152.0	3155.2	3153.0	3148.7	3145.5	3132.6	3115.5	3109.0
27.5°	3262.5	3269.0	3290.4	3303.3	3303.3	3304.4	3295.8	3306.6	3278.6	3258.2	3256.1
30°	3442.9	3447.2	3465.4	3478.3	3471.9	3466.5	3464.3	3475.1	3445.0	3408.5	3399.9
32.5°	3621.1	3636.1	3652.2	3680.1	3657.6	3647.9	3645.8	3653.3	3618.9	3578.1	3566.3
35°	3812.2	3822.9	3853.0	3876.6	3856.2	3833.6	3843.3	3866.9	3826.1	3771.4	3769.3
37.5°	4023.7	4033.4	4072.0	4096.7	4081.6	4043.0	4059.1	4087.0	4046.2	3978.6	3964.6
40°	4243.8	4264.1	4312.5	4338.2	4313.5	4262.0	4292.0	4322.2	4285.7	4207.3	4176.1
42.5°	4490.7	4522.9	4592.6	4605.6	4558.3	4488.5	4541.1	4589.4	4563.7	4473.4	4461.7
45°	4779.5	4798.7	4884.7	4912.5	4847.1	4760.1	4825.6	4913.6	4894.3	4790.2	4767.6
47.5°	5102.6	5120.8	5209.9	5251.8	5169.1	5052.1	5170.2	5285.1	5273.3	5161.6	5150.9
50°	5484.7	5489.0	5612.5	5659.8	5577.1	5476.2	5581.4	5724.2	5676.9	5534.1	5532.0
52.5°	5903.5	5908.8	6064.5	6155.7	6109.6	5995.7	6120.3	6207.3	6087.0	5900.2	5886.2
55°	6266.3	6293.1	6505.7	6748.4	6811.7	6729.0	6766.6	6725.8	6429.5	6167.6	6126.8
57.5°	6414.5	6467.0	6790.2	7243.3	7655.5	7777.9	7488.0	7099.4	6565.9	6195.5	6155.7
60°	6052.7	6109.6	6610.9	7470.9	8522.9	9054.3	8239.5	7162.7	6255.6	5734.9	5672.6
62.5°	4847.1	4863.2	5600.7	6935.1	9028.6	10404.9	8556.2	6622.7	5352.7	4645.3	4620.5
64°	3488.0	3653.3	4434.8	6080.6	8807.4	10919.1	8373.7	5865.9	4347.9	3631.9	3515.9
65°	2608.7	2653.8	3574.9	5192.8	8417.7	10880.4	8019.4	5142.3	3600.7	2779.4	2650.6
67.5°	985.5	990.9	1319.4	2588.3	5992.5	9361.3	6120.3	2797.7	1516.9	1097.2	1057.5
70°	409.1	416.5	484.2	870.7	2575.5	6010.8	2951.2	1009.1	555.1	449.9	443.4
72.5°	299.5	303.9	324.2	386.4	792.3	2468.1	970.5	428.3	325.3	290.9	287.7
75°	235.1	237.2	252.3	284.5	369.3	683.8	403.7	294.2	248.0	223.3	221.2
77.5°	179.3	184.7	195.4	216.9	248.0	324.2	267.4	220.1	191.1	170.7	167.4
80°	123.5	129.9	150.3	158.9	166.4	210.4	182.5	166.4	149.2	124.6	117.0
82.5°	76.2	80.5	100.9	108.4	105.2	118.1	117.0	119.2	106.3	77.3	71.9
85°	39.7	41.9	54.7	56.9	52.6	48.3	60.1	69.8	65.5	44.0	43.0
87.5°	8.6	9.7	11.8	10.8	11.8	11.8	15.1	22.5	23.6	15.1	14.0
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)