

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: P528691

Luminaire Tested: **GALN-SA3D-740-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528691  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-740-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15865 lumens  
Efficiency: N/A  
Efficacy: 86.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

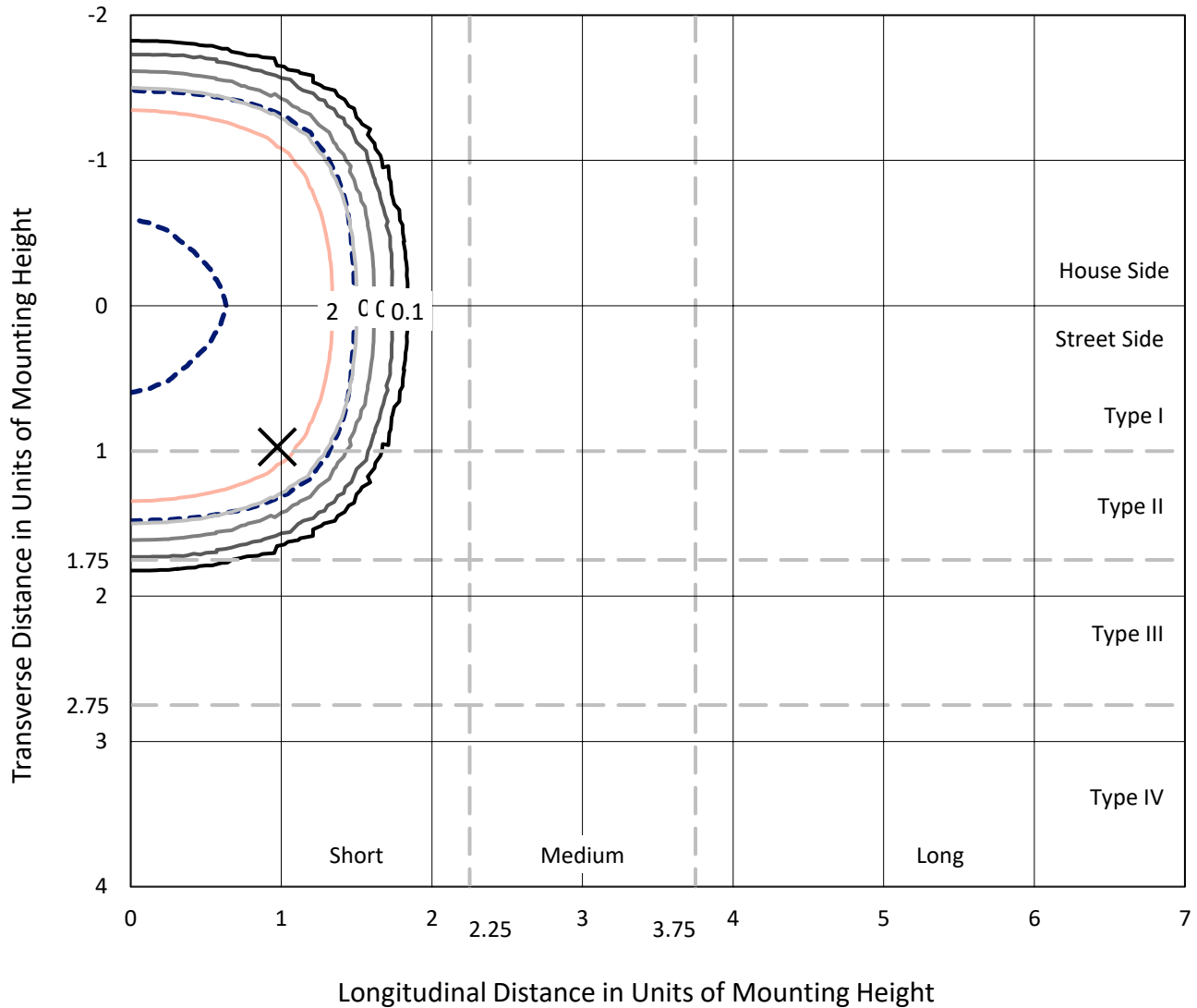
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

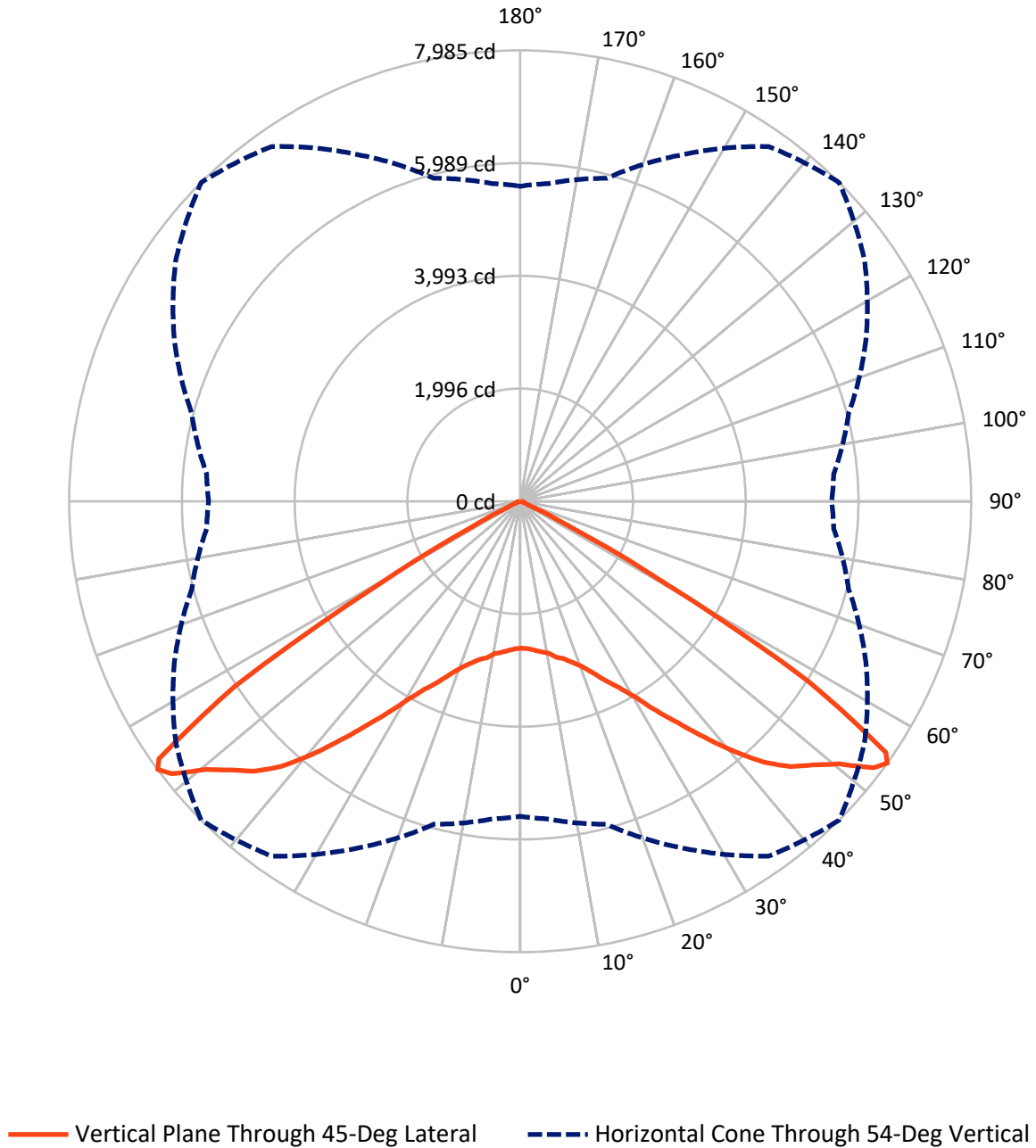
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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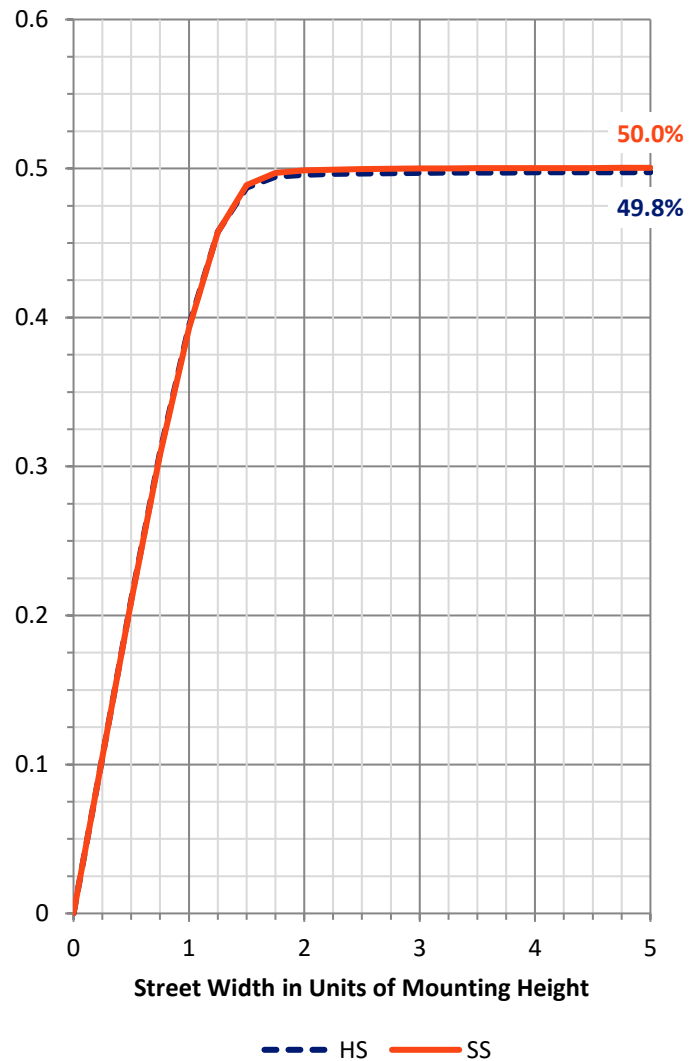
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7932.5	0.0	7932.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7932.5	0.0	7932.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15865.0	0.0	15865.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.6	1.6
10°-20°	824.5	5.2
20°-30°	1616.0	10.2
30°-40°	2906.0	18.3
40°-50°	4974.4	31.4
50°-60°	4813.3	30.3
60°-70°	412.0	2.6
70°-80°	48.8	0.3
80°-90°	15.3	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°	15865.0	100.0
0°-180°	15865.0	100.0



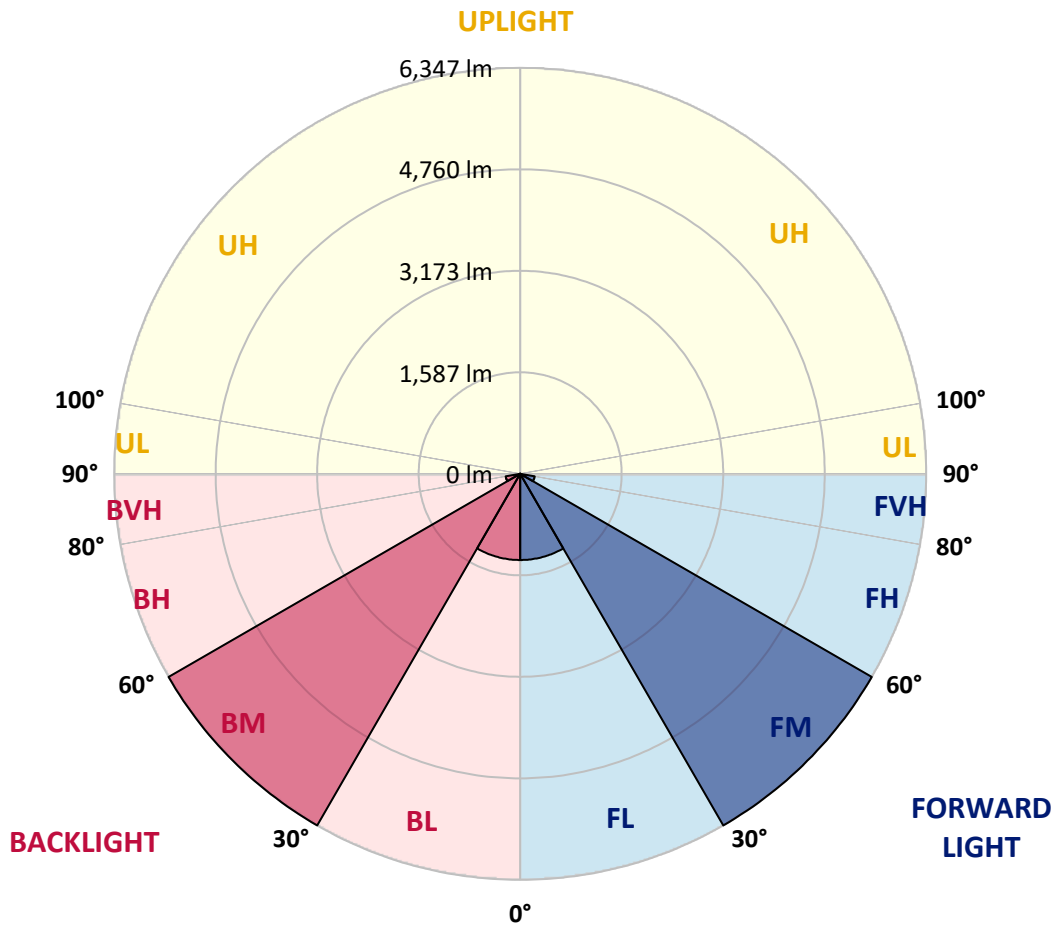
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1347.6	8.5			
FM (30°-60°)	6346.8	40.0			
FH (60°-80°)	230.4	1.5			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	1347.6	8.5	B3/2500		
BM (30°-60°)	6346.8	40.0	B4/8500		
BH (60°-80°)	230.4	1.5	B1/500		G0/660
BVH (80°-90°)	7.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2601.4	2601.4	2601.4	2601.4	2601.4	2601.4	2601.4	2601.4	2601.4	2601.4	2601.4
2.5°	2613.9	2629.0	2619.0	2626.5	2626.5	2613.9	2621.5	2591.3	2611.4	2596.3	2598.9
5°	2654.1	2651.6	2651.6	2654.1	2644.1	2649.1	2639.1	2629.0	2621.5	2611.4	2641.6
7.5°	2704.4	2704.4	2686.8	2691.8	2686.8	2694.4	2674.3	2654.1	2646.6	2639.1	2634.0
10°	2752.2	2747.1	2739.6	2762.2	2744.6	2734.6	2724.5	2712.0	2684.3	2674.3	2664.2
12.5°	2822.5	2820.0	2810.0	2832.6	2822.5	2832.6	2794.9	2762.2	2757.2	2724.5	2742.1
15°	2905.5	2928.1	2910.5	2910.5	2905.5	2892.9	2877.8	2862.8	2817.5	2805.0	2807.5
17.5°	3013.6	3006.0	3008.5	3008.5	3033.7	3001.0	2970.8	2933.1	2910.5	2903.0	2877.8
20°	3116.6	3126.7	3124.2	3141.7	3156.8	3121.6	3089.0	3083.9	3021.1	3031.2	2996.0
22.5°	3297.6	3290.0	3302.6	3315.2	3305.1	3300.1	3269.9	3232.2	3176.9	3151.8	3146.8
25°	3488.6	3476.0	3453.4	3483.6	3498.6	3521.3	3463.5	3443.4	3357.9	3320.2	3322.7
27.5°	3652.0	3669.6	3694.7	3707.3	3745.0	3737.4	3697.2	3631.9	3566.5	3523.8	3496.1
30°	3875.7	3885.7	3928.4	3946.0	4011.4	4029.0	3966.1	3890.7	3775.1	3719.8	3687.2
32.5°	4081.8	4152.1	4149.6	4237.6	4343.1	4416.0	4302.9	4187.3	4071.7	4006.4	3948.5
35°	4416.0	4403.5	4476.4	4569.4	4740.3	4823.2	4700.1	4566.8	4390.9	4285.3	4240.1
37.5°	4727.7	4732.7	4830.7	4979.0	5175.1	5303.3	5195.2	4976.5	4795.6	4659.8	4597.0
40°	5180.1	5190.2	5290.7	5459.1	5680.3	5818.5	5692.8	5471.7	5230.4	5124.8	5124.8
42.5°	5710.4	5753.2	5818.5	5964.3	6162.8	6316.2	6203.1	6029.6	5785.8	5650.1	5670.2
45°	6255.8	6276.0	6318.7	6534.8	6627.8	6703.2	6597.7	6517.2	6353.9	6188.0	6160.3
47.5°	6766.1	6773.6	6899.3	6967.1	7040.0	6977.2	7045.1	6939.5	6756.0	6595.2	6562.5
50°	6992.3	6979.7	7158.2	7364.3	7419.5	7309.0	7251.1	7180.8	6901.8	6708.3	6622.8
52.5°	6333.8	6406.6	6738.4	7311.5	7743.8	7836.8	7500.0	7175.7	6655.5	6278.5	6220.7
54°	5579.7	5647.6	5921.6	6771.1	7670.9	7985.1	7442.2	6753.5	6019.6	5572.2	5514.4
55°	4833.3	4757.9	5255.5	6122.6	7329.1	7854.4	7213.4	6208.1	5368.6	4958.9	4878.5
57.5°	2616.4	2629.0	3048.8	3868.1	5150.0	6022.1	5318.3	4199.9	3171.9	2712.0	2671.7
60°	829.4	849.5	1033.0	1563.3	2460.6	2938.2	2518.4	1686.5	1166.2	935.0	897.3
62.5°	258.9	268.9	294.1	437.3	673.6	962.6	754.0	452.4	336.8	309.1	314.2
65°	158.3	158.3	160.9	170.9	201.1	233.7	226.2	198.6	191.0	186.0	183.5
67.5°	103.0	100.5	105.6	113.1	118.1	120.6	128.2	135.7	133.2	128.2	128.2
70°	62.8	60.3	65.3	75.4	77.9	82.9	90.5	100.5	98.0	93.0	95.5
72.5°	35.2	35.2	37.7	45.2	52.8	57.8	65.3	72.9	75.4	72.9	72.9
75°	12.6	15.1	20.1	27.6	32.7	40.2	47.8	55.3	62.8	57.8	55.3
77.5°	5.0	5.0	10.1	17.6	25.1	32.7	45.2	52.8	57.8	52.8	47.8
80°	2.5	2.5	7.5	15.1	22.6	30.2	37.7	45.2	47.8	42.7	37.7
82.5°	2.5	2.5	7.5	15.1	22.6	27.6	40.2	45.2	50.3	45.2	37.7
85°	0.0	2.5	7.5	15.1	20.1	22.6	22.6	15.1	12.6	7.5	7.5
87.5°	0.0	0.0	2.5	0.0	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)