

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: P458833

Luminaire Tested: **GALN-SA3D-735-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458833  
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-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 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: 22451 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

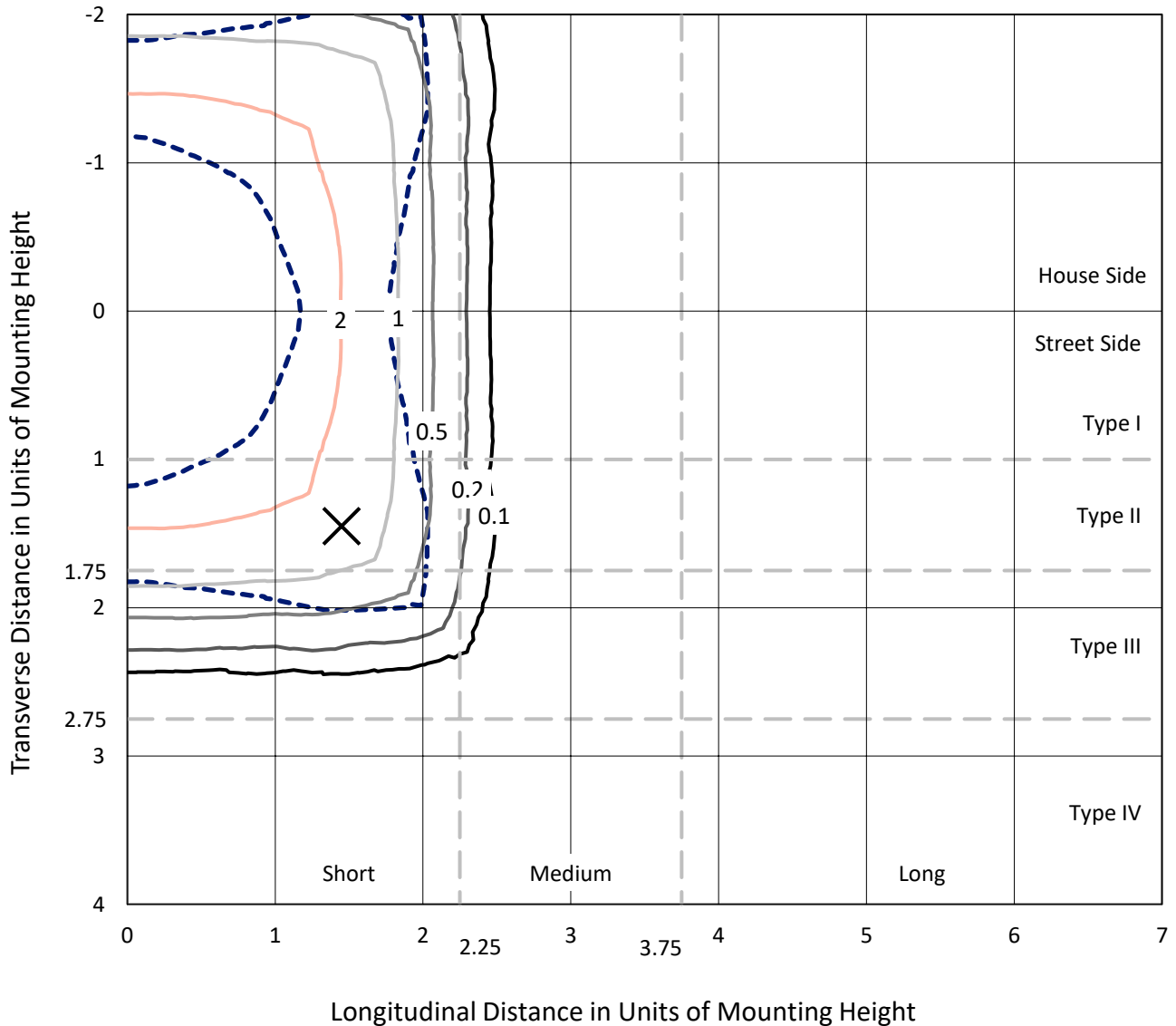
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

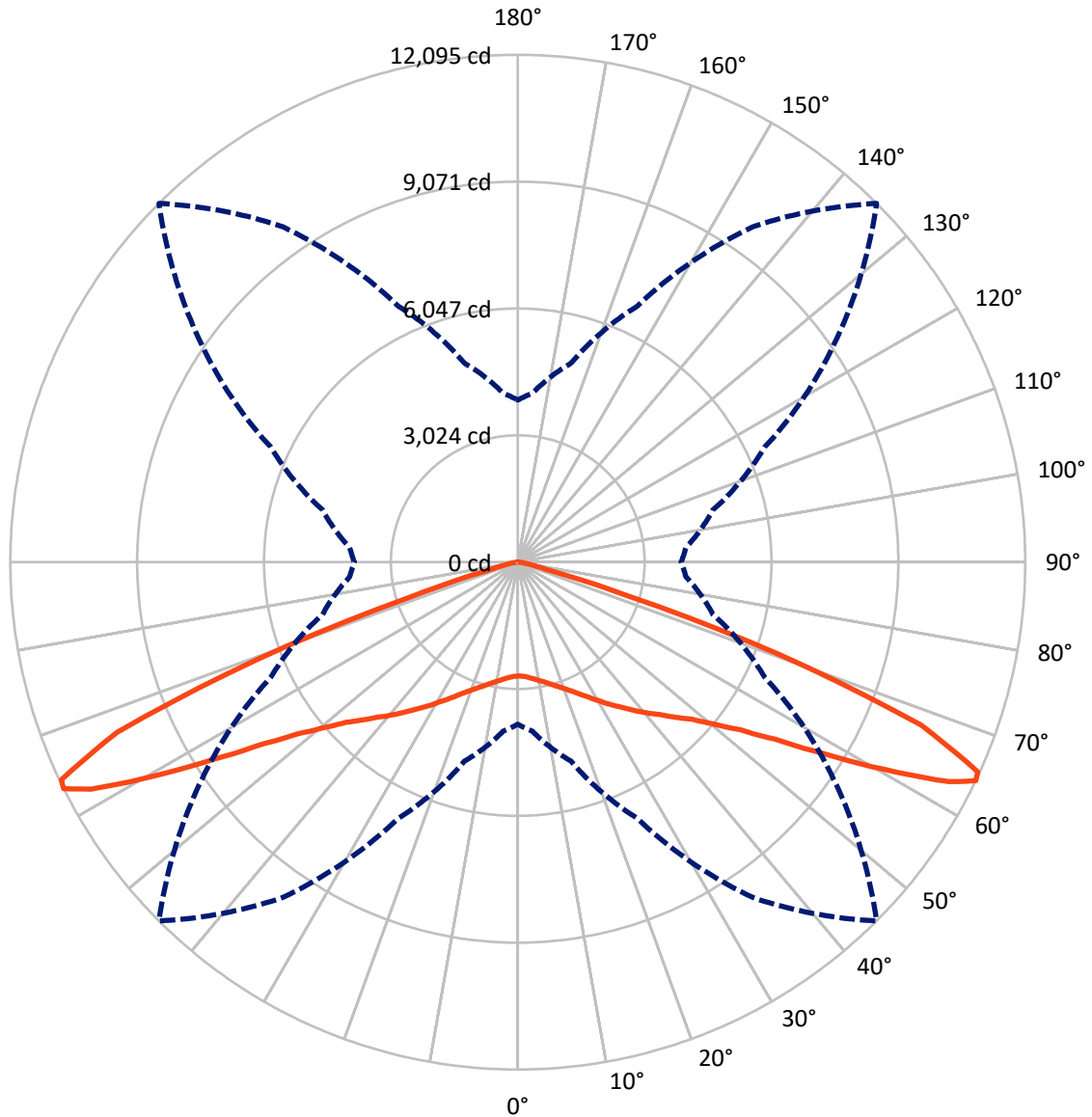
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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
<b>House Side</b>	Lumens	11225.5	0.0	11225.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11225.5	0.0	11225.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22451.0	0.0	22451.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.6	1.2
10°-20°	859.9	3.8
20°-30°	1625.0	7.2
30°-40°	2691.2	12.0
40°-50°	4201.4	18.7
50°-60°	6495.3	28.9
60°-70°	5600.8	24.9
70°-80°	634.7	2.8
80°-90°	76.0	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°	22451.0	100.0
0°-180°	22451.0	100.0

**Coefficient of Utilization**



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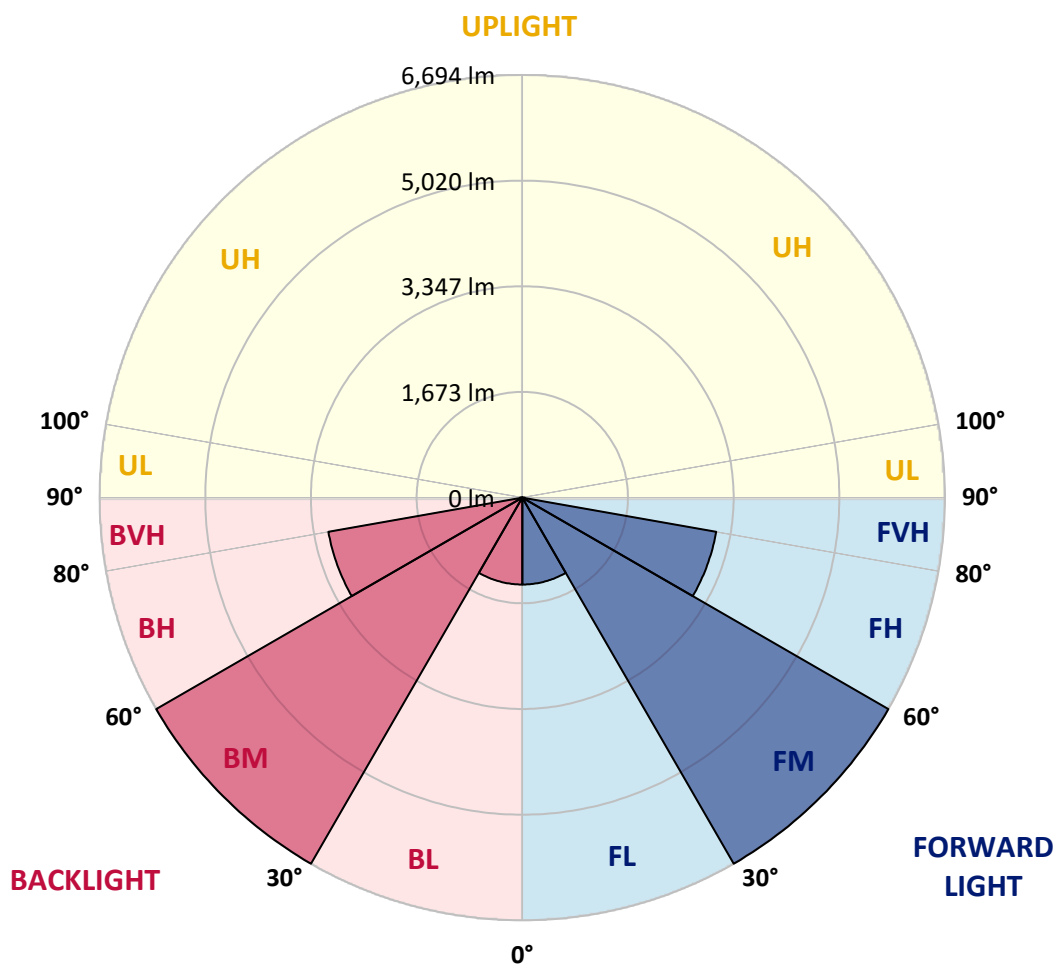
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1375.8	6.1			
FM	(30°-60°)	6693.9	29.8			
FH	(60°-80°)	3117.8	13.9			G2/5000
FVH	(80°-90°)	38.0	0.2			G1/100
BL	(0°-30°)	1375.8	6.1	B3/2500		
BM	(30°-60°)	6693.9	29.8	B4/8500		
BH	(60°-80°)	3117.8	13.9	B4/5000		G2/5000
BVH	(80°-90°)	38.0	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6	2713.6
2.5°	2724.3	2730.2	2725.5	2724.3	2723.1	2723.1	2723.1	2724.3	2729.0	2732.6	2730.2
5°	2758.8	2763.5	2761.1	2760.0	2758.8	2760.0	2757.6	2756.4	2760.0	2760.0	2758.8
7.5°	2801.6	2807.5	2805.1	2807.5	2808.7	2809.9	2804.0	2799.2	2798.0	2801.6	2799.2
10°	2859.8	2864.6	2865.8	2867.0	2869.4	2868.2	2861.0	2852.7	2851.5	2850.3	2849.1
12.5°	2925.2	2928.8	2930.0	2934.8	2938.3	2939.5	2931.2	2924.1	2912.2	2914.5	2909.8
15°	2999.0	3006.1	3004.9	3012.1	3021.6	3023.9	3015.6	3003.7	2993.0	2987.1	2983.5
17.5°	3089.3	3094.1	3091.7	3098.9	3110.7	3116.7	3109.6	3094.1	3083.4	3070.3	3063.2
20°	3196.4	3204.7	3207.1	3207.1	3217.8	3223.7	3213.0	3208.3	3191.6	3182.1	3176.2
22.5°	3317.7	3321.2	3328.4	3335.5	3346.2	3343.8	3340.2	3333.1	3317.7	3309.3	3299.8
25°	3454.4	3458.0	3475.8	3491.3	3494.8	3492.5	3487.7	3484.1	3469.9	3450.8	3443.7
27.5°	3613.7	3620.9	3644.7	3658.9	3658.9	3660.1	3650.6	3662.5	3631.6	3609.0	3606.6
30°	3813.5	3818.3	3838.5	3852.8	3845.6	3839.7	3837.3	3849.2	3815.9	3775.5	3766.0
32.5°	4010.9	4027.6	4045.4	4076.3	4051.3	4040.6	4038.3	4046.6	4008.5	3963.4	3950.3
35°	4222.6	4234.5	4267.8	4293.9	4271.3	4246.4	4257.1	4283.2	4238.0	4177.4	4175.0
37.5°	4456.8	4467.5	4510.3	4537.7	4521.0	4478.2	4496.1	4527.0	4481.8	4406.9	4391.4
40°	4700.6	4723.2	4776.7	4805.2	4777.9	4720.8	4754.1	4787.4	4747.0	4660.2	4625.7
42.5°	4974.1	5009.8	5087.1	5101.3	5049.0	4971.7	5030.0	5083.5	5055.0	4955.1	4942.0
45°	5294.0	5315.4	5410.5	5441.4	5368.9	5272.6	5345.1	5442.6	5421.2	5305.9	5280.9
47.5°	5651.9	5672.1	5770.8	5817.2	5725.6	5596.0	5726.8	5854.1	5841.0	5717.3	5705.4
50°	6075.2	6080.0	6216.7	6269.1	6177.5	6065.7	6182.3	6340.4	6288.1	6129.9	6127.6
52.5°	6539.0	6544.9	6717.4	6818.4	6767.3	6641.3	6779.2	6875.5	6742.3	6535.4	6520.0
55°	6940.9	6970.6	7206.1	7474.8	7545.0	7453.4	7495.0	7449.9	7121.7	6831.5	6786.3
57.5°	7105.0	7163.3	7521.2	8023.0	8479.6	8615.2	8294.1	7863.7	7272.7	6862.4	6818.4
60°	6704.3	6767.3	7322.6	8275.1	9440.5	10029.1	9126.5	7933.8	6929.0	6352.3	6283.3
62.5°	5368.9	5386.7	6203.7	7681.7	10000.5	11525.0	9477.3	7335.7	5929.0	5145.3	5118.0
64°	3863.5	4046.6	4912.3	6735.2	9755.6	12094.6	9275.2	6497.4	4816.0	4022.8	3894.4
65°	2889.6	2939.5	3959.8	5751.8	9323.9	12051.8	8882.8	5695.9	3988.3	3078.6	2935.9
67.5°	1091.6	1097.6	1461.4	2867.0	6637.7	10369.2	6779.2	3098.9	1680.2	1215.3	1171.3
70°	453.1	461.4	536.3	964.4	2852.7	6657.9	3268.9	1117.8	614.8	498.2	491.1
72.5°	331.8	336.5	359.1	428.1	877.6	2733.8	1075.0	474.5	360.3	322.3	318.7
75°	260.4	262.8	279.4	315.1	409.1	757.5	447.1	325.8	274.7	247.3	245.0
77.5°	198.6	204.5	216.4	240.2	274.7	359.1	296.1	243.8	211.7	189.1	185.5
80°	136.7	143.9	166.5	176.0	184.3	233.1	202.2	184.3	165.3	137.9	129.6
82.5°	84.4	89.2	111.8	120.1	116.5	130.8	129.6	132.0	117.7	85.6	79.7
85°	44.0	46.4	60.6	63.0	58.3	53.5	66.6	77.3	72.5	48.8	47.6
87.5°	9.5	10.7	13.1	11.9	13.1	13.1	16.6	25.0	26.2	16.6	15.5
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)