

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: P452747

Luminaire Tested: **GALN-SA3D-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452747  
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-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19926 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

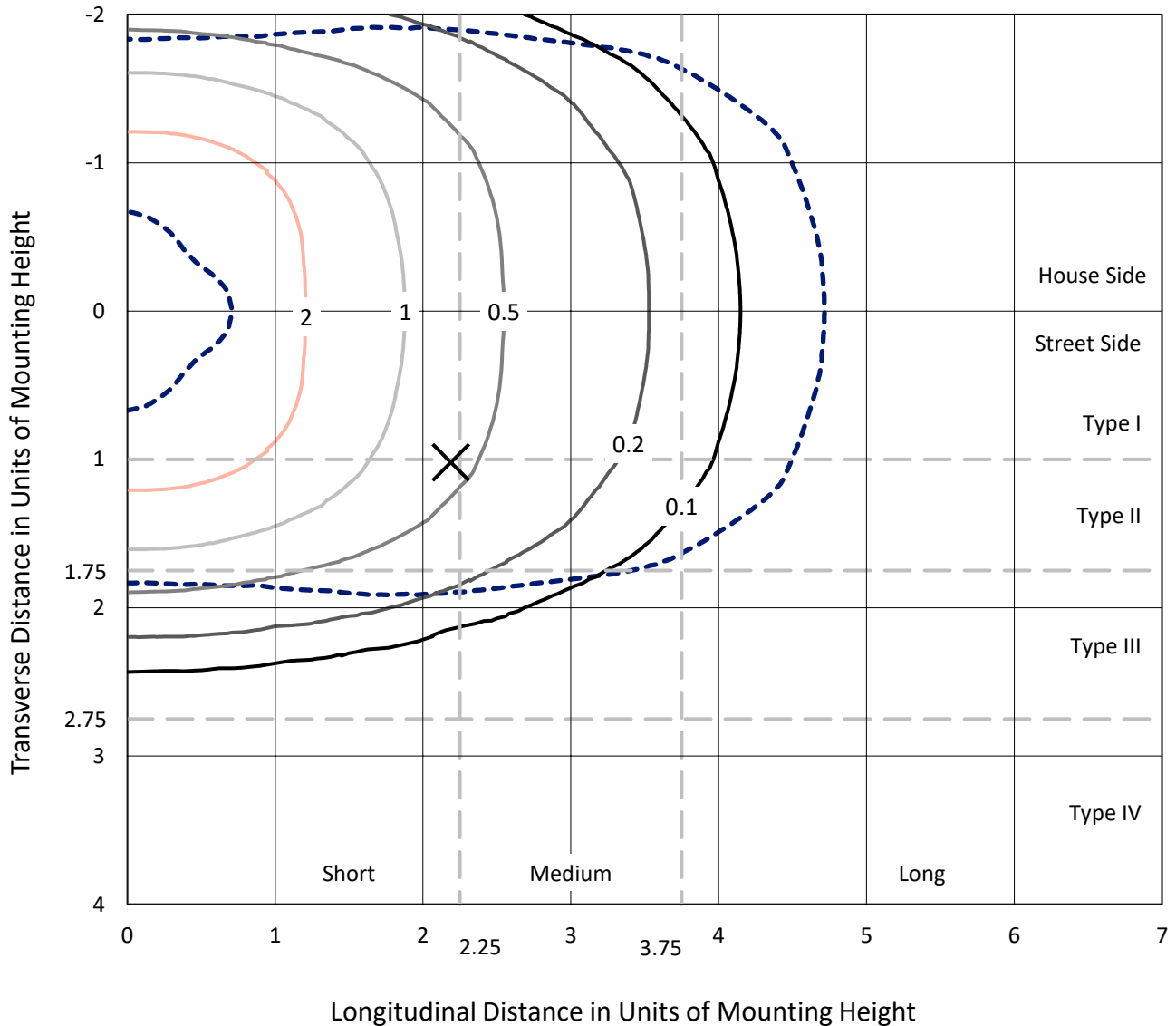
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

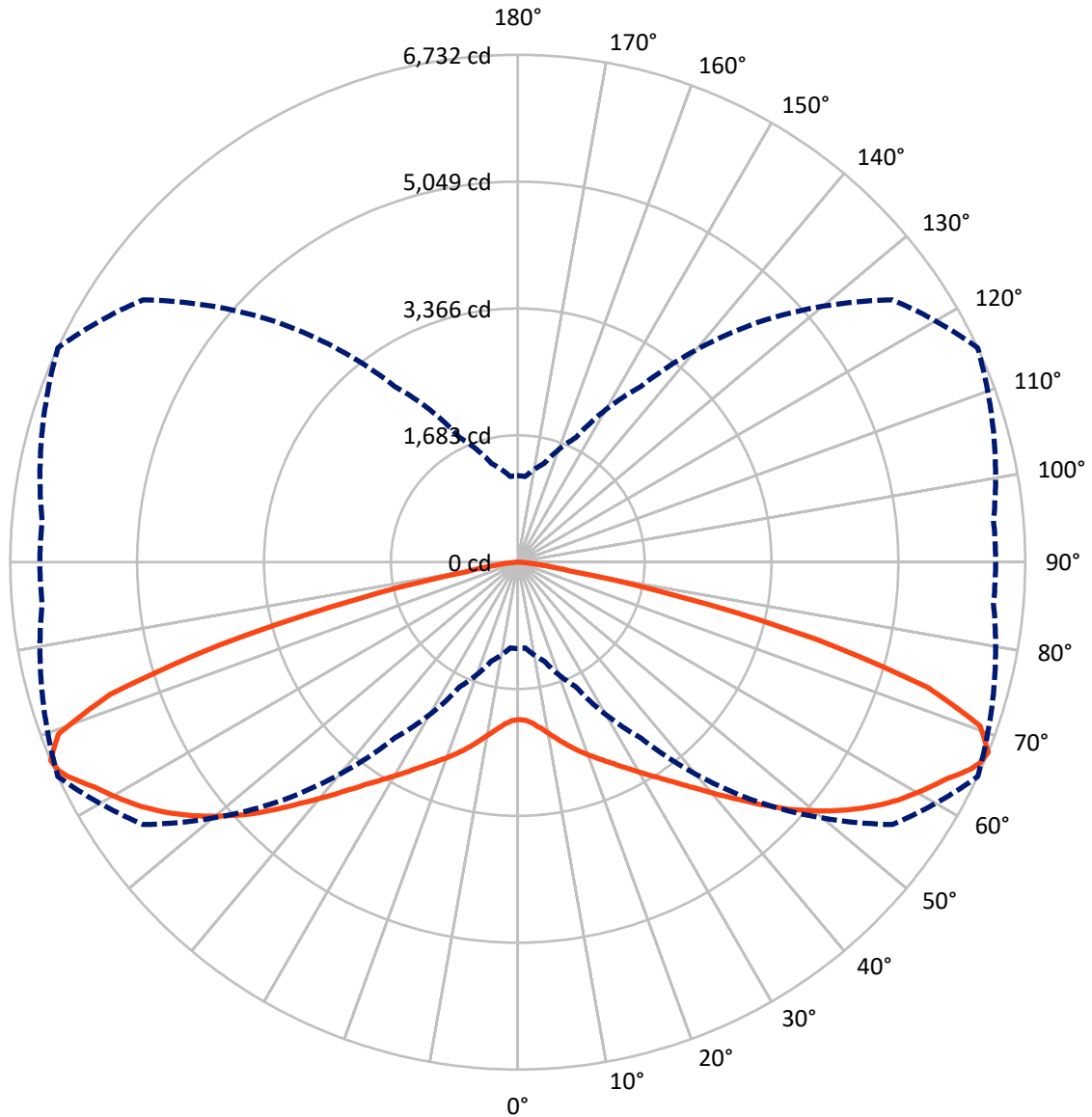
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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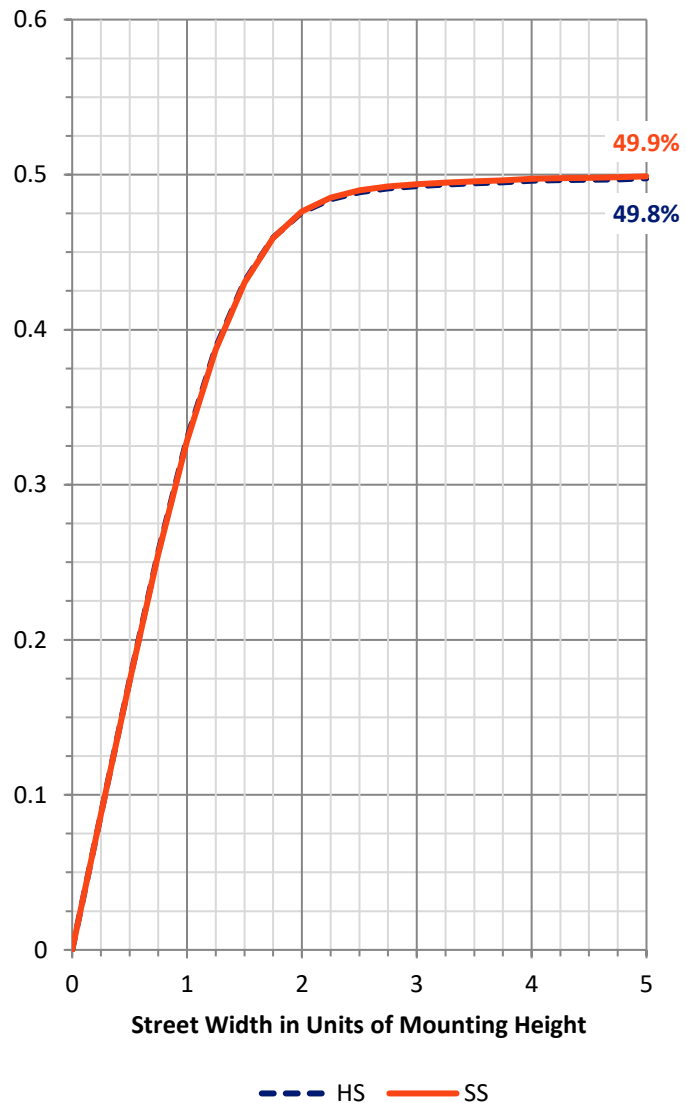
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9963.0	0.0	9963.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9963.0	0.0	9963.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19926.0	0.0	19926.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.8	1.0
10°-20°	688.9	3.5
20°-30°	1347.6	6.8
30°-40°	2292.1	11.5
40°-50°	3627.7	18.2
50°-60°	4810.3	24.1
60°-70°	4537.5	22.8
70°-80°	2243.1	11.3
80°-90°	172.9	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°	19926.0	100.0
0°-180°	19926.0	100.0



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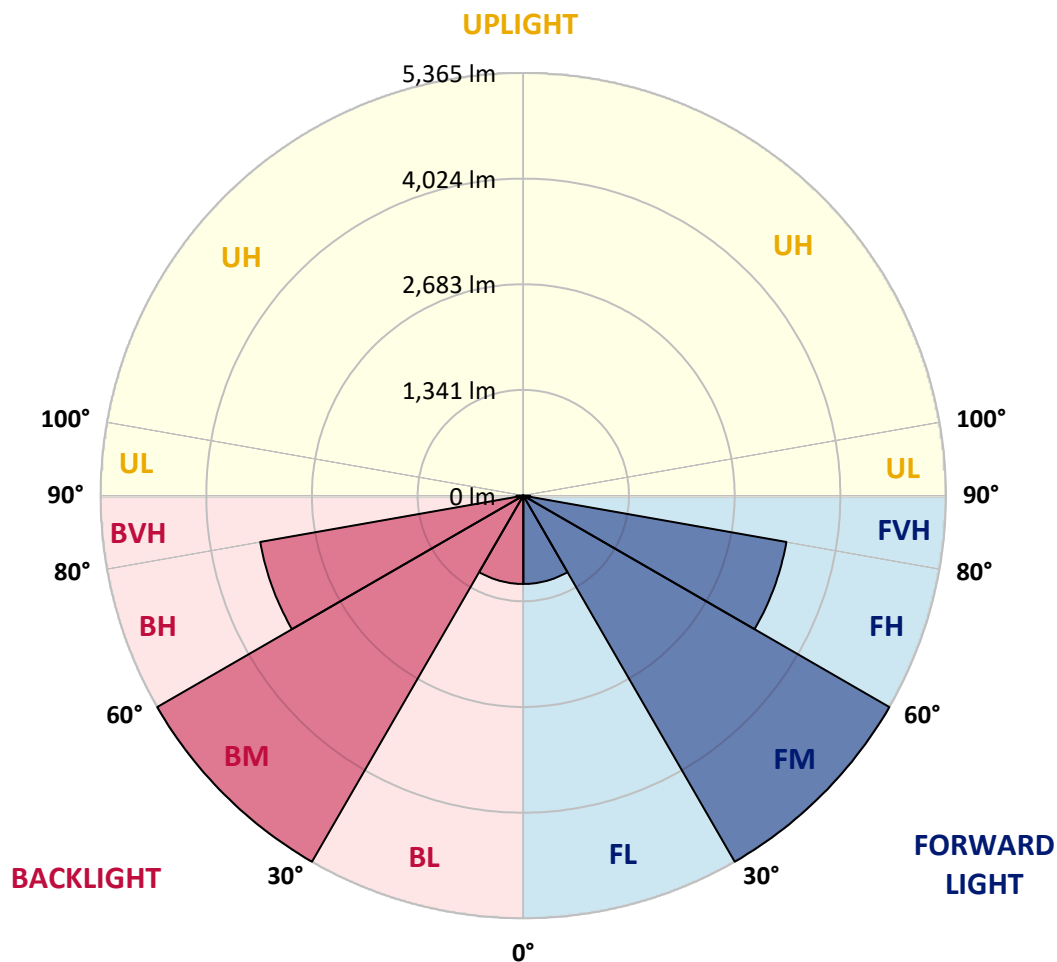
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1121.2	5.6			
FM	(30°-60°)	5365.0	26.9			
FH	(60°-80°)	3390.3	17.0			G2/5000
FVH	(80°-90°)	86.4	0.4			G1/100
BL	(0°-30°)	1121.2	5.6	B3/2500		
BM	(30°-60°)	5365.0	26.9	B4/8500		
BH	(60°-80°)	3390.3	17.0	B4/5000		G4/5000
BVH	(80°-90°)	86.4	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°	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1	2087.1
2.5°	2076.4	2078.5	2080.7	2083.9	2088.1	2094.5	2098.8	2102.0	2110.6	2111.6	2110.6
5°	2068.9	2071.1	2076.4	2086.0	2099.9	2119.1	2134.0	2152.2	2166.1	2175.7	2173.5
7.5°	2067.9	2072.1	2080.7	2101.0	2127.6	2160.7	2194.9	2225.9	2252.5	2273.9	2270.7
10°	2084.9	2090.3	2104.2	2134.0	2175.7	2223.7	2271.8	2317.7	2356.1	2383.9	2393.5
12.5°	2113.8	2118.0	2143.7	2188.5	2248.3	2308.1	2362.5	2419.1	2472.5	2519.4	2519.4
15°	2163.9	2171.4	2203.4	2268.6	2342.2	2411.6	2467.1	2526.9	2584.6	2637.9	2653.9
17.5°	2233.3	2244.0	2292.0	2375.3	2469.3	2533.3	2585.6	2634.7	2684.9	2736.1	2743.6
20°	2328.3	2339.0	2403.1	2503.4	2614.4	2691.3	2726.5	2738.3	2762.8	2811.9	2818.3
22.5°	2457.5	2468.2	2539.7	2652.9	2776.7	2860.0	2874.9	2847.2	2840.8	2879.2	2883.5
25°	2603.8	2613.4	2695.6	2817.3	2945.4	3036.1	3031.9	2963.5	2925.1	2948.6	2955.0
27.5°	2768.2	2782.1	2865.3	2991.3	3130.1	3210.1	3197.3	3098.0	3015.8	3011.6	3013.7
30°	2978.5	2993.4	3072.4	3193.1	3329.7	3403.4	3376.7	3243.2	3116.2	3073.5	3073.5
32.5°	3200.5	3237.9	3318.0	3443.9	3550.7	3604.1	3563.5	3403.4	3234.7	3174.9	3171.7
35°	3489.8	3510.1	3589.1	3711.9	3792.0	3833.6	3755.7	3583.8	3389.5	3319.0	3309.4
37.5°	3772.7	3789.8	3881.6	3999.1	4096.2	4094.1	3988.4	3798.4	3581.7	3502.7	3496.2
40°	4062.1	4080.2	4184.8	4292.6	4389.8	4381.3	4253.1	4040.7	3810.1	3721.5	3738.6
42.5°	4312.9	4333.2	4451.7	4605.4	4693.0	4690.8	4542.5	4303.3	4063.1	3984.1	3999.1
45°	4541.4	4559.5	4697.2	4873.4	5001.5	5017.5	4855.2	4602.2	4355.6	4254.2	4258.5
47.5°	4702.6	4736.7	4880.9	5082.6	5256.6	5313.2	5154.2	4906.5	4622.5	4516.8	4523.2
50°	4825.4	4846.7	5003.6	5233.2	5453.1	5570.5	5442.4	5188.3	4889.4	4777.3	4792.3
52.5°	4840.3	4865.9	5036.7	5301.5	5583.3	5761.6	5698.6	5463.8	5161.6	5046.3	5078.4
55°	4718.6	4733.5	4937.4	5258.8	5634.6	5903.6	5919.6	5720.0	5421.1	5333.5	5354.9
57.5°	4371.6	4410.1	4668.4	5059.1	5564.1	5979.4	6085.1	5952.7	5683.7	5597.2	5631.4
60°	3802.6	3841.1	4100.5	4595.8	5298.3	5944.2	6221.7	6158.7	5921.7	5852.3	5870.5
62.5°	2979.5	2976.3	3297.7	3905.1	4769.8	5771.2	6323.1	6357.3	6156.6	6069.1	6096.8
65°	1931.2	1940.8	2251.5	2905.9	3972.4	5331.4	6345.6	6610.3	6387.2	6254.8	6275.1
66°	1553.3	1582.1	1845.8	2449.0	3565.6	5043.1	6278.3	6685.0	6457.6	6297.5	6307.1
67.5°	1146.6	1141.2	1357.9	1823.4	2847.2	4495.5	6068.0	6732.0	6537.7	6335.9	6340.2
70°	654.4	653.3	730.2	1001.4	1673.9	3165.3	5114.7	6506.8	6700.0	6474.7	6463.0
72.5°	478.3	475.1	485.7	553.0	816.7	1598.1	3528.3	5686.9	6616.7	6452.3	6419.2
75°	401.4	399.3	397.1	405.7	458.0	723.8	1872.5	4090.9	5741.3	6056.2	6022.1
77.5°	327.7	327.7	328.8	326.7	328.8	381.1	776.1	2192.8	3496.2	3903.0	3998.0
80°	256.2	255.1	273.3	265.8	248.7	244.5	343.8	705.7	1160.4	1154.0	952.3
82.5°	189.0	176.1	208.2	202.8	183.6	155.9	200.7	301.1	387.5	251.9	186.8
85°	119.6	118.5	147.3	134.5	112.1	73.7	96.1	129.2	160.1	97.1	79.0
87.5°	21.4	20.3	47.0	34.2	34.2	21.4	26.7	35.2	52.3	36.3	26.7
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)