

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: P452888

Luminaire Tested: **GALN-SA3D-827-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452888
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-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 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: 17717 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

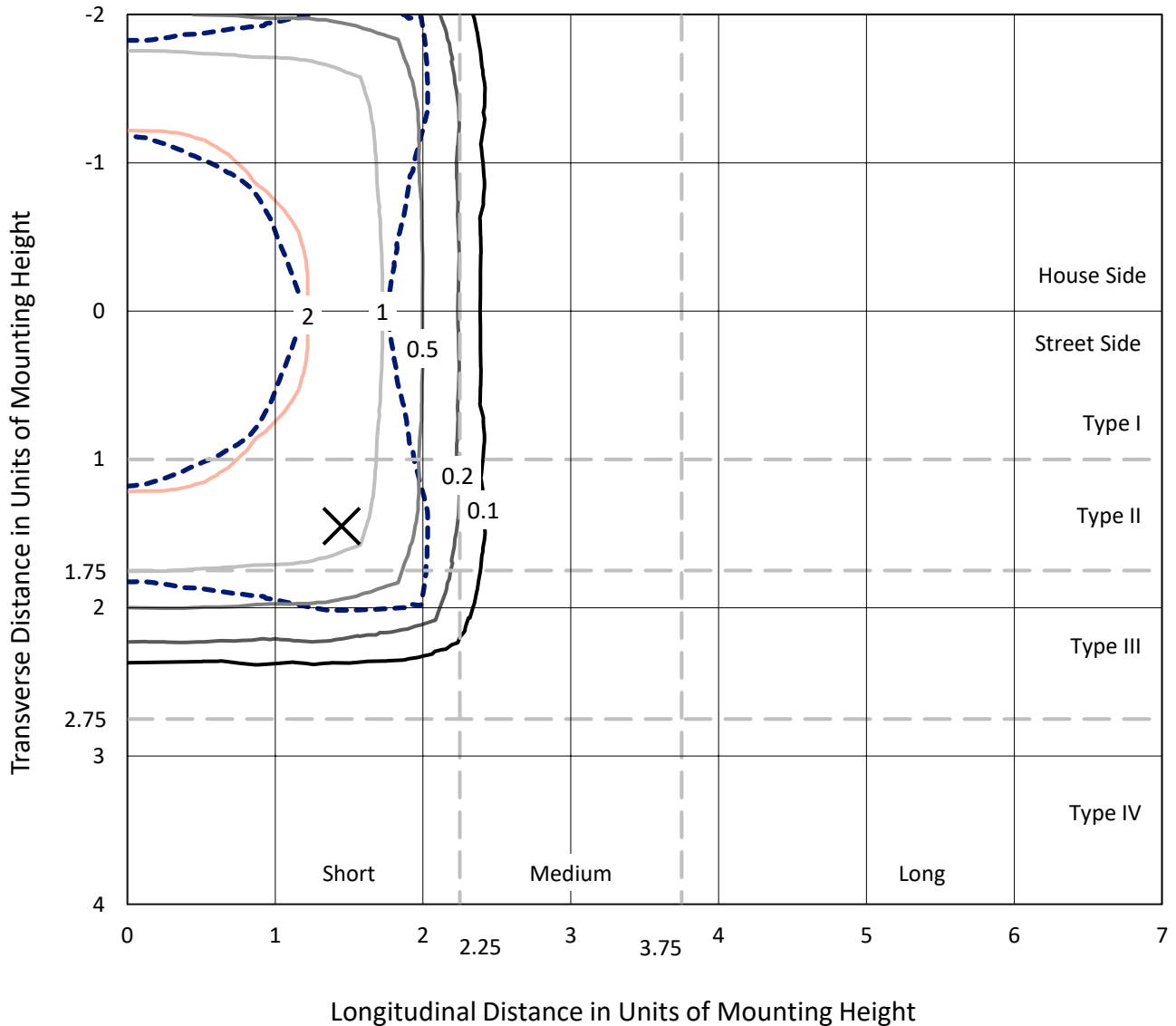
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

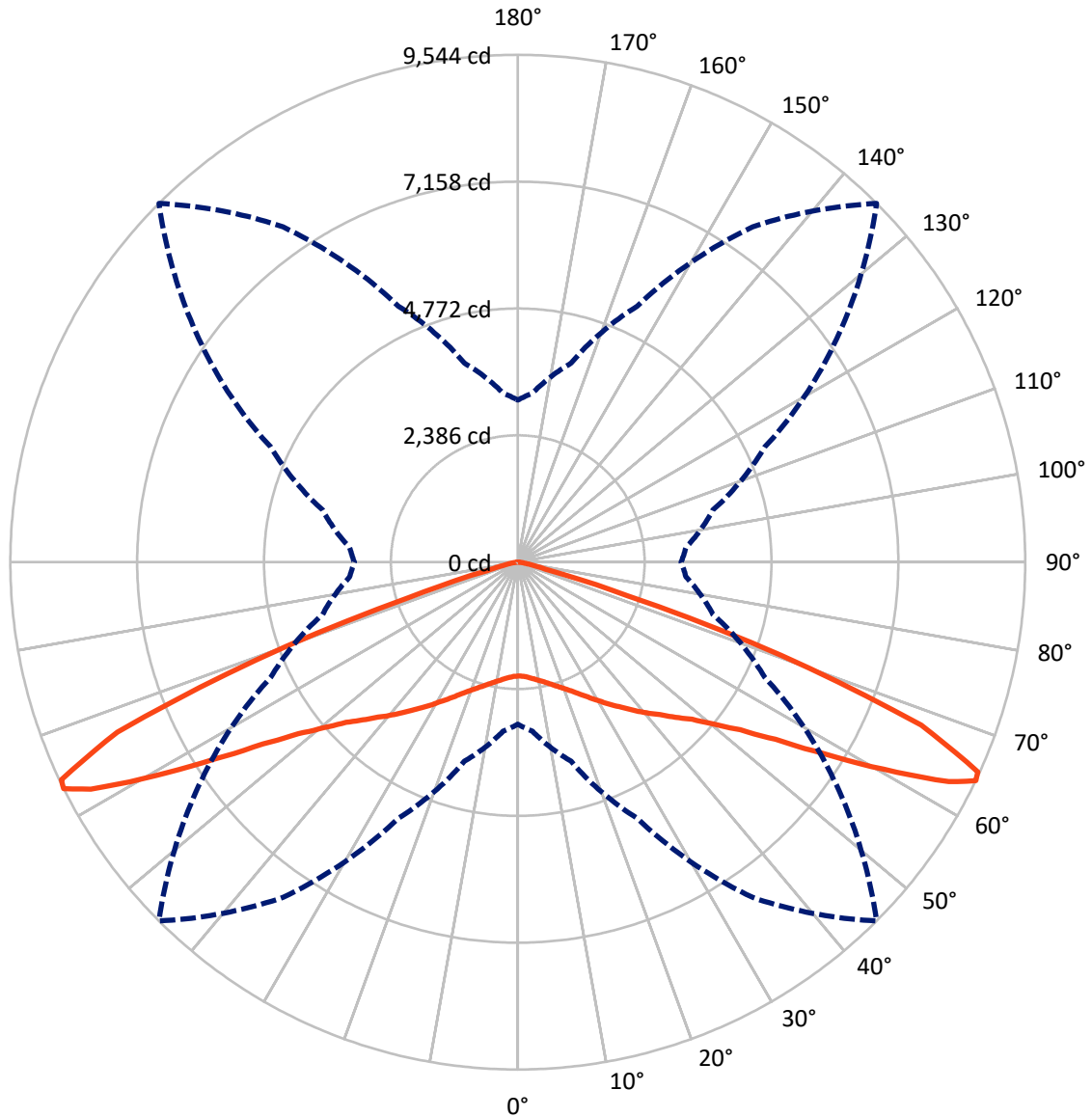
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	8858.5	0.0	8858.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8858.5	0.0	8858.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17717.0	0.0	17717.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.4	1.2
10°-20°	678.6	3.8
20°-30°	1282.4	7.2
30°-40°	2123.7	12.0
40°-50°	3315.5	18.7
50°-60°	5125.7	28.9
60°-70°	4419.8	24.9
70°-80°	500.9	2.8
80°-90°	60.0	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°	17717.0	100.0
0°-180°	17717.0	100.0



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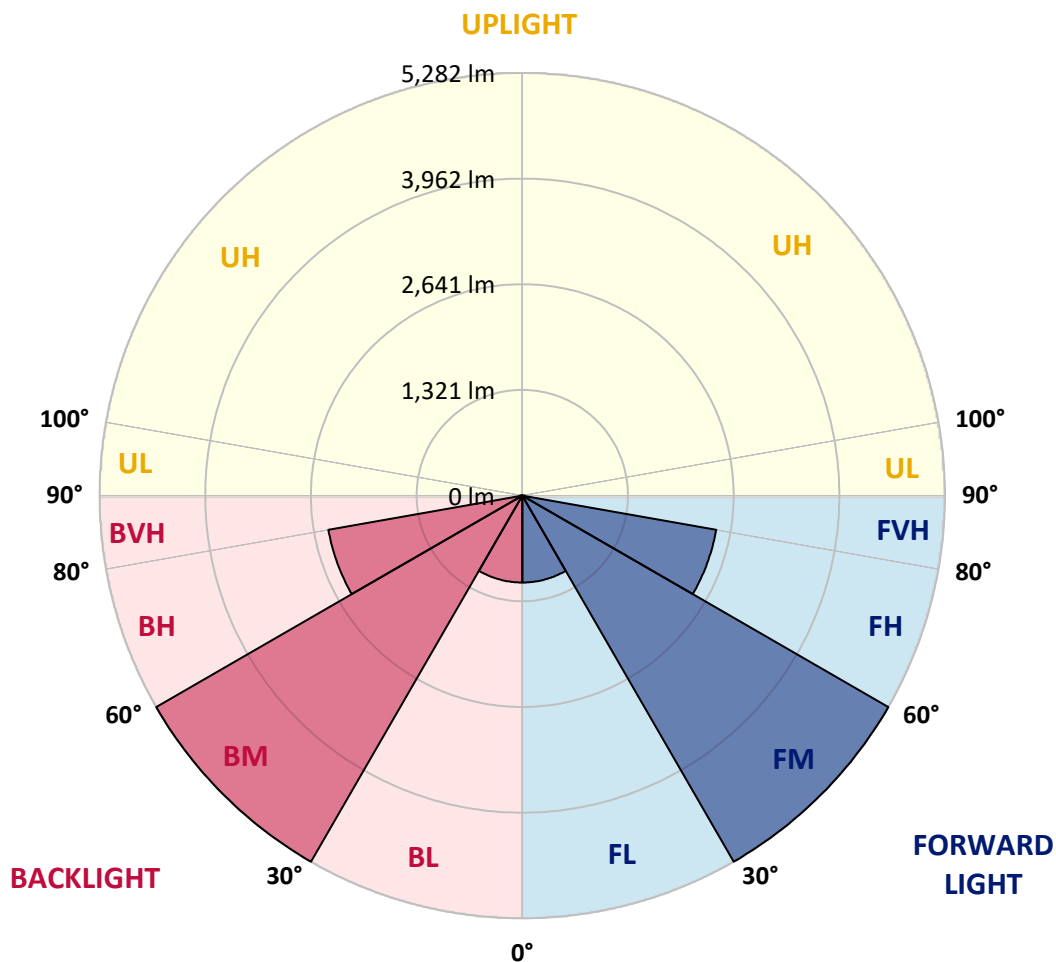
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1085.7	6.1			
FM	(30°-60°)	5282.5	29.8			
FH	(60°-80°)	2460.3	13.9			G2/5000
FVH	(80°-90°)	30.0	0.2			G1/100
BL	(0°-30°)	1085.7	6.1	B3/2500		
BM	(30°-60°)	5282.5	29.8	B4/8500		
BH	(60°-80°)	2460.3	13.9	B3/2500		G2/5000
BVH	(80°-90°)	30.0	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°	2141.4	2141.4	2141.4	2141.4	2141.4	2141.4	2141.4	2141.4	2141.4	2141.4	2141.4
2.5°	2149.8	2154.5	2150.8	2149.8	2148.9	2148.9	2148.9	2149.8	2153.6	2156.4	2154.5
5°	2177.1	2180.8	2178.9	2178.0	2177.1	2178.0	2176.1	2175.2	2178.0	2178.0	2177.1
7.5°	2210.8	2215.5	2213.7	2215.5	2216.5	2217.4	2212.7	2209.0	2208.0	2210.8	2209.0
10°	2256.8	2260.6	2261.5	2262.4	2264.3	2263.4	2257.8	2251.2	2250.3	2249.3	2248.4
12.5°	2308.4	2311.2	2312.2	2315.9	2318.8	2319.7	2313.1	2307.5	2298.1	2300.0	2296.2
15°	2366.6	2372.2	2371.3	2376.9	2384.4	2386.3	2379.7	2370.4	2361.9	2357.2	2354.4
17.5°	2437.9	2441.7	2439.8	2445.4	2454.8	2459.5	2453.9	2441.7	2433.2	2422.9	2417.3
20°	2522.4	2529.0	2530.8	2530.8	2539.3	2544.0	2535.5	2531.8	2518.6	2511.1	2506.4
22.5°	2618.1	2620.9	2626.5	2632.2	2640.6	2638.7	2635.9	2630.3	2618.1	2611.5	2604.0
25°	2726.0	2728.8	2742.9	2755.1	2757.9	2756.0	2752.3	2749.5	2738.2	2723.2	2717.6
27.5°	2851.8	2857.4	2876.2	2887.4	2887.4	2888.4	2880.8	2890.2	2865.8	2848.0	2846.1
30°	3009.4	3013.2	3029.1	3040.4	3034.7	3030.0	3028.2	3037.6	3011.3	2979.4	2971.9
32.5°	3165.2	3178.3	3192.4	3216.8	3197.1	3188.6	3186.8	3193.3	3163.3	3127.6	3117.3
35°	3332.2	3341.6	3367.9	3388.5	3370.7	3351.0	3359.4	3380.1	3344.4	3296.6	3294.7
37.5°	3517.1	3525.5	3559.3	3580.9	3567.7	3534.0	3548.0	3572.4	3536.8	3477.7	3465.5
40°	3709.4	3727.3	3769.5	3792.0	3770.4	3725.4	3751.7	3777.9	3746.0	3677.5	3650.3
42.5°	3925.3	3953.4	4014.4	4025.7	3984.4	3923.4	3969.4	4011.6	3989.1	3910.3	3899.9
45°	4177.7	4194.6	4269.7	4294.1	4236.8	4160.8	4218.0	4295.0	4278.1	4187.1	4167.4
47.5°	4460.1	4476.1	4554.0	4590.6	4518.3	4416.0	4519.3	4619.7	4609.4	4511.8	4502.4
50°	4794.2	4798.0	4905.9	4947.2	4874.9	4786.7	4878.7	5003.5	4962.2	4837.4	4835.5
52.5°	5160.2	5164.9	5300.9	5380.7	5340.4	5240.9	5349.7	5425.7	5320.6	5157.4	5145.2
55°	5477.4	5500.8	5686.6	5898.7	5954.1	5881.8	5914.6	5879.0	5620.0	5391.0	5355.4
57.5°	5606.9	5652.8	5935.3	6331.3	6691.6	6798.6	6545.2	6205.5	5739.2	5415.4	5380.7
60°	5290.6	5340.4	5778.6	6530.2	7449.8	7914.3	7202.1	6260.9	5468.0	5012.9	4958.4
62.5°	4236.8	4250.9	4895.6	6062.0	7891.8	9094.8	7478.9	5788.9	4678.8	4060.4	4038.8
64°	3048.8	3193.3	3876.5	5315.0	7698.5	9544.3	7319.4	5127.3	3800.5	3174.6	3073.2
65°	2280.3	2319.7	3124.8	4539.0	7357.9	9510.5	7009.7	4494.9	3147.3	2429.5	2316.9
67.5°	861.4	866.1	1153.3	2262.4	5238.1	8182.7	5349.7	2445.4	1325.9	959.0	924.3
70°	357.5	364.1	423.2	761.0	2251.2	5254.0	2579.6	882.1	485.1	393.2	387.6
72.5°	261.8	265.6	283.4	337.8	692.5	2157.3	848.3	374.4	284.3	254.3	251.5
75°	205.5	207.4	220.5	248.7	322.8	597.8	352.8	257.1	216.8	195.2	193.3
77.5°	156.7	161.4	170.8	189.6	216.8	283.4	233.7	192.4	167.0	149.2	146.4
80°	107.9	113.5	131.4	138.9	145.4	183.9	159.5	145.4	130.4	108.9	102.3
82.5°	66.6	70.4	88.2	94.8	92.0	103.2	102.3	104.2	92.9	67.6	62.9
85°	34.7	36.6	47.9	49.7	46.0	42.2	52.5	61.0	57.2	38.5	37.5
87.5°	7.5	8.4	10.3	9.4	10.3	10.3	13.1	19.7	20.6	13.1	12.2
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)