

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: P531578

Luminaire Tested: **GALN-SA6D-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531578  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6D-827-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30374 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

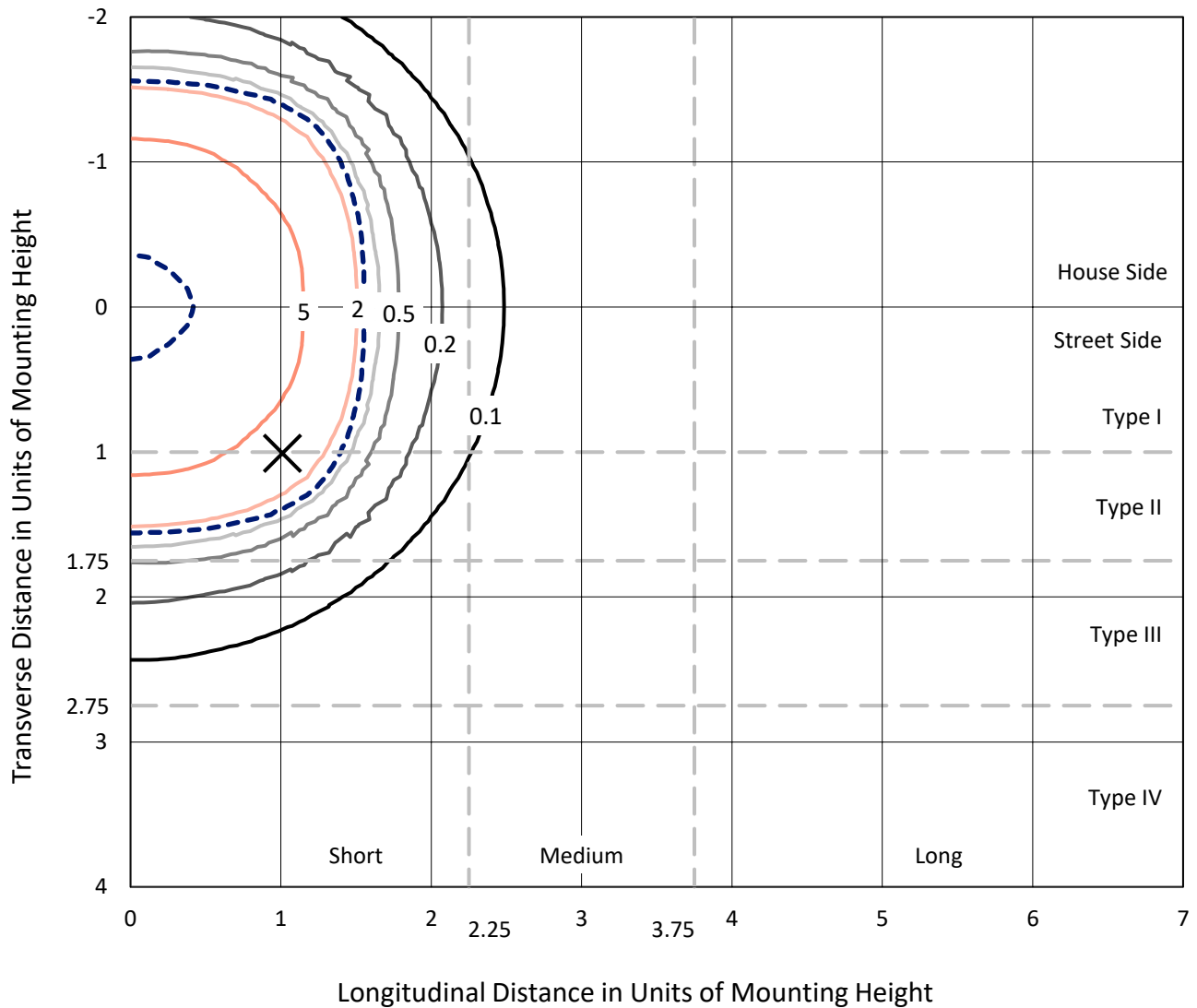
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

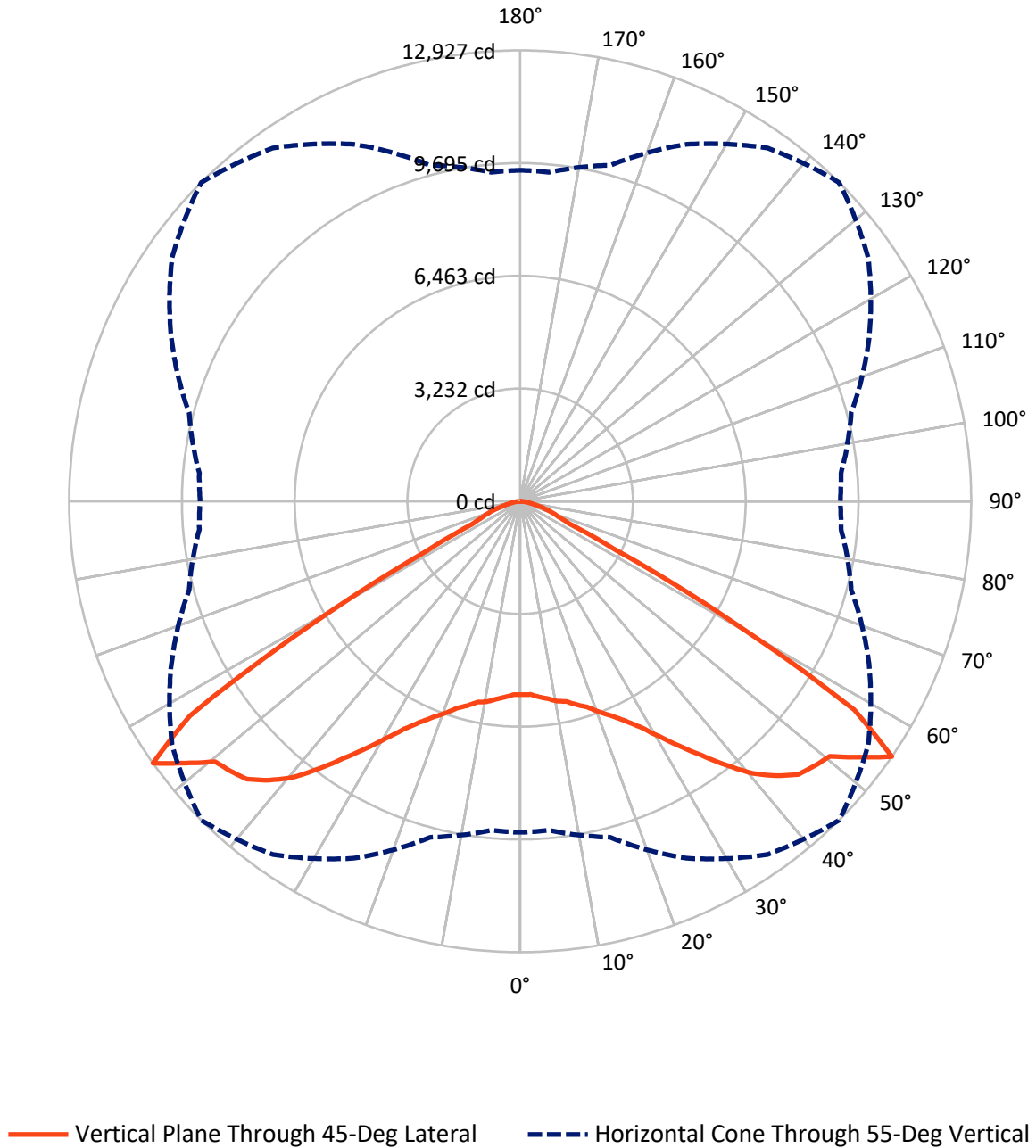
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	15187.0	0.0	15187.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15187.0	0.0	15187.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30374.0	0.0	30374.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	541.8	1.8
10°-20°	1716.6	5.7
20°-30°	3201.0	10.5
30°-40°	5359.4	17.6
40°-50°	8339.7	27.5
50°-60°	8659.2	28.5
60°-70°	1836.3	6.0
70°-80°	604.8	2.0
80°-90°	115.2	0.4
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°	30374.0	100.0
0°-180°	30374.0	100.0

**Coefficient of Utilization**

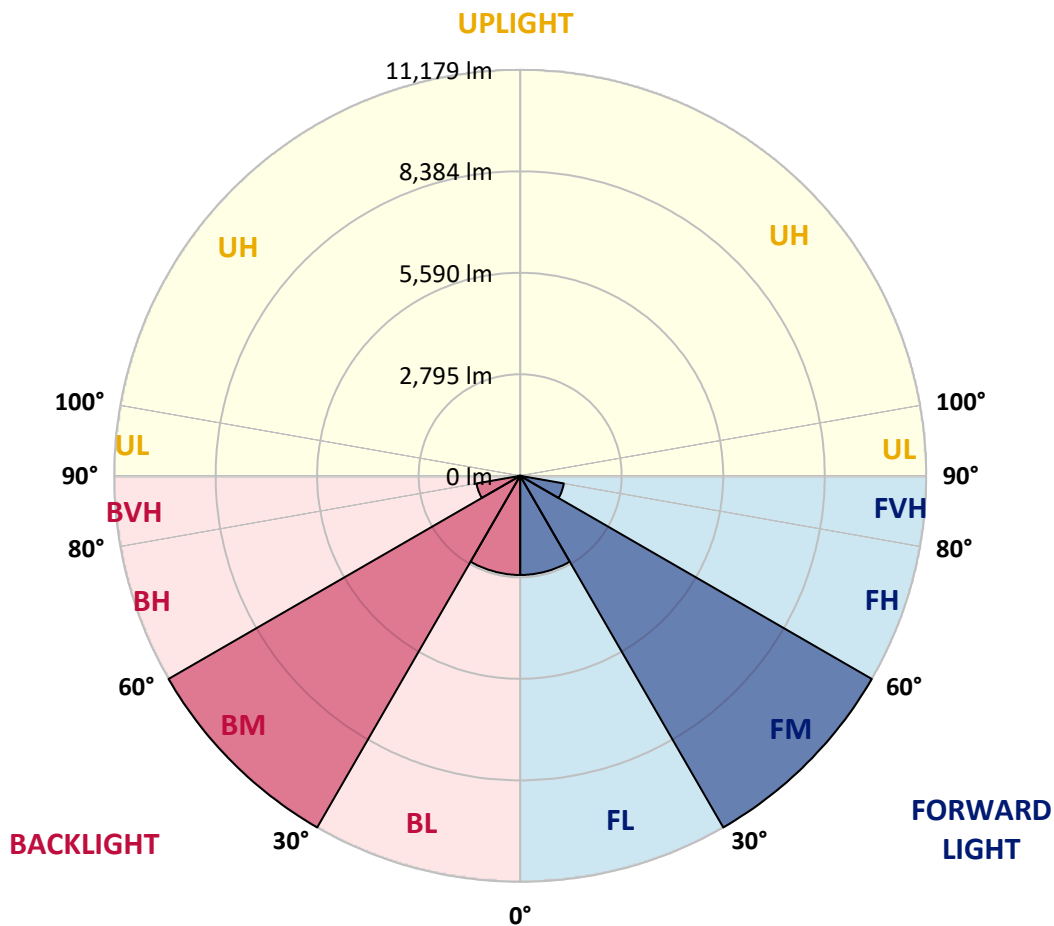


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2729.7	9.0			
FM (30°-60°)	11179.2	36.8			
FH (60°-80°)	1220.6	4.0			G1/1800
FVH (80°-90°)	57.6	0.2			G1/100
BL (0°-30°)	2729.7	9.0	B4/5000		
BM (30°-60°)	11179.2	36.8	B5		
BH (60°-80°)	1220.6	4.0	B3/2500		G1/1800
BVH (80°-90°)	57.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5545.8	5545.8	5545.8	5545.8	5545.8	5545.8	5545.8	5545.8	5545.8	5545.8	5545.8
2.5°	5611.9	5586.2	5542.2	5575.2	5600.9	5545.8	5567.9	5578.9	5571.5	5542.2	5553.2
5°	5692.7	5678.0	5641.3	5667.0	5633.9	5633.9	5611.9	5582.5	5626.6	5619.2	5637.6
7.5°	5692.7	5674.3	5747.7	5700.0	5714.7	5714.7	5678.0	5648.6	5670.6	5637.6	5619.2
10°	5806.4	5832.1	5799.1	5810.1	5802.8	5828.5	5773.4	5755.0	5736.7	5725.7	5703.7
12.5°	5942.2	5923.9	5934.9	5927.6	5953.2	5887.2	5854.1	5813.8	5846.8	5799.1	5832.1
15°	6052.3	6041.3	6052.3	6081.7	6056.0	6052.3	5993.6	5953.2	5901.9	5912.9	5861.5
17.5°	6202.8	6191.8	6195.5	6221.2	6217.5	6199.2	6155.1	6078.0	6059.7	6030.3	5997.3
20°	6426.7	6408.4	6401.0	6412.0	6430.4	6445.1	6357.0	6327.6	6265.2	6217.5	6162.5
22.5°	6617.6	6610.2	6639.6	6591.9	6632.3	6676.3	6591.9	6577.2	6423.0	6397.4	6338.6
25°	6881.8	6870.8	6852.5	6922.2	6969.9	6966.2	6885.5	6804.8	6687.3	6657.9	6657.9
27.5°	7160.8	7098.4	7193.8	7212.2	7296.6	7322.3	7252.5	7135.1	7025.0	6962.6	6977.3
30°	7509.5	7450.7	7472.8	7604.9	7715.0	7810.4	7634.2	7461.7	7307.6	7197.5	7179.1
32.5°	7858.1	7799.4	7865.5	7993.9	8214.2	8357.3	8184.8	7883.8	7704.0	7542.5	7575.5
35°	8140.7	8184.8	8291.2	8485.8	8713.3	8944.5	8669.3	8438.0	8181.1	8001.3	8027.0
37.5°	8595.9	8731.7	8816.1	9040.0	9363.0	9601.5	9315.2	9014.3	8739.0	8504.1	8423.4
40°	9190.5	9282.2	9377.6	9641.9	10023.6	10262.2	9990.6	9597.9	9326.3	9084.0	9073.0
42.5°	9843.8	9931.9	10031.0	10353.9	10581.5	10761.4	10511.8	10302.6	10001.6	9810.7	9799.7
45°	10603.5	10541.1	10651.2	10864.1	11055.0	11172.4	11010.9	10908.2	10691.6	10515.4	10497.1
47.5°	11110.0	11055.0	11253.2	11444.0	11473.4	11344.9	11378.0	11473.4	11245.8	10955.9	11047.6
50°	11403.7	11403.7	11535.8	11712.0	11656.9	11491.7	11752.3	11759.7	11532.1	11275.2	11275.2
52.5°	10893.5	11007.3	11381.6	11957.9	12141.4	12189.1	12130.4	11880.8	11286.2	10761.4	10735.7
55°	9491.4	9465.7	9972.2	11293.5	12361.6	12926.8	12178.1	11029.3	9821.8	9230.8	9172.1
57.5°	6173.5	6202.8	6958.9	8305.9	10232.8	11286.2	10023.6	8408.7	6958.9	6144.1	6221.2
60°	2778.4	2877.5	3336.3	4342.0	5997.3	6856.1	6012.0	4562.2	3501.5	3039.0	3079.4
62.5°	1596.6	1614.9	1633.3	1937.9	2554.5	3020.7	2653.6	2048.0	1805.8	1725.0	1725.0
65°	1347.0	1336.0	1339.7	1365.4	1431.4	1526.8	1486.5	1431.4	1438.8	1431.4	1420.4
67.5°	1145.1	1159.8	1148.8	1167.2	1170.8	1185.5	1211.2	1233.2	1236.9	1244.2	1236.9
70°	939.6	943.3	950.6	965.3	969.0	980.0	1016.7	1035.0	1046.0	1046.0	1060.7
72.5°	719.4	715.7	723.1	737.7	756.1	759.8	792.8	818.5	833.2	814.8	818.5
75°	473.5	477.1	488.2	499.2	524.9	550.5	561.6	587.2	590.9	598.3	579.9
77.5°	282.6	290.0	301.0	323.0	345.0	367.0	392.7	411.1	418.4	411.1	389.1
80°	183.5	183.5	198.2	216.5	242.2	260.6	275.3	290.0	301.0	290.0	282.6
82.5°	113.8	113.8	132.1	154.2	172.5	183.5	205.5	223.9	234.9	227.6	216.5
85°	58.7	62.4	77.1	95.4	110.1	117.4	113.8	102.8	91.8	88.1	80.7
87.5°	18.4	18.4	22.0	22.0	18.4	18.4	22.0	18.4	22.0	22.0	22.0
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)