

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: P456455

Luminaire Tested: **GALN-SA7D-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456455
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-SA7D-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 47028 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

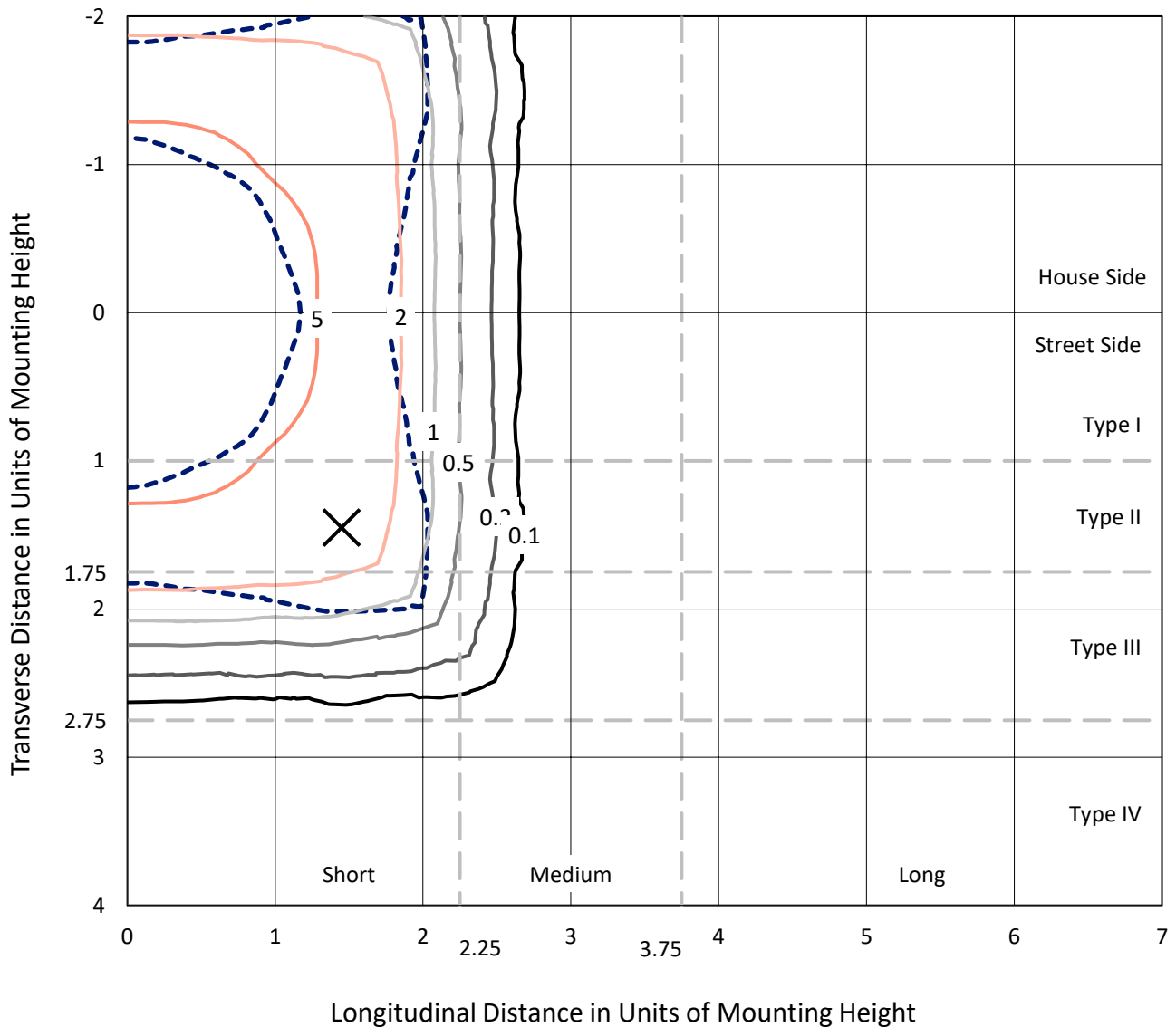
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

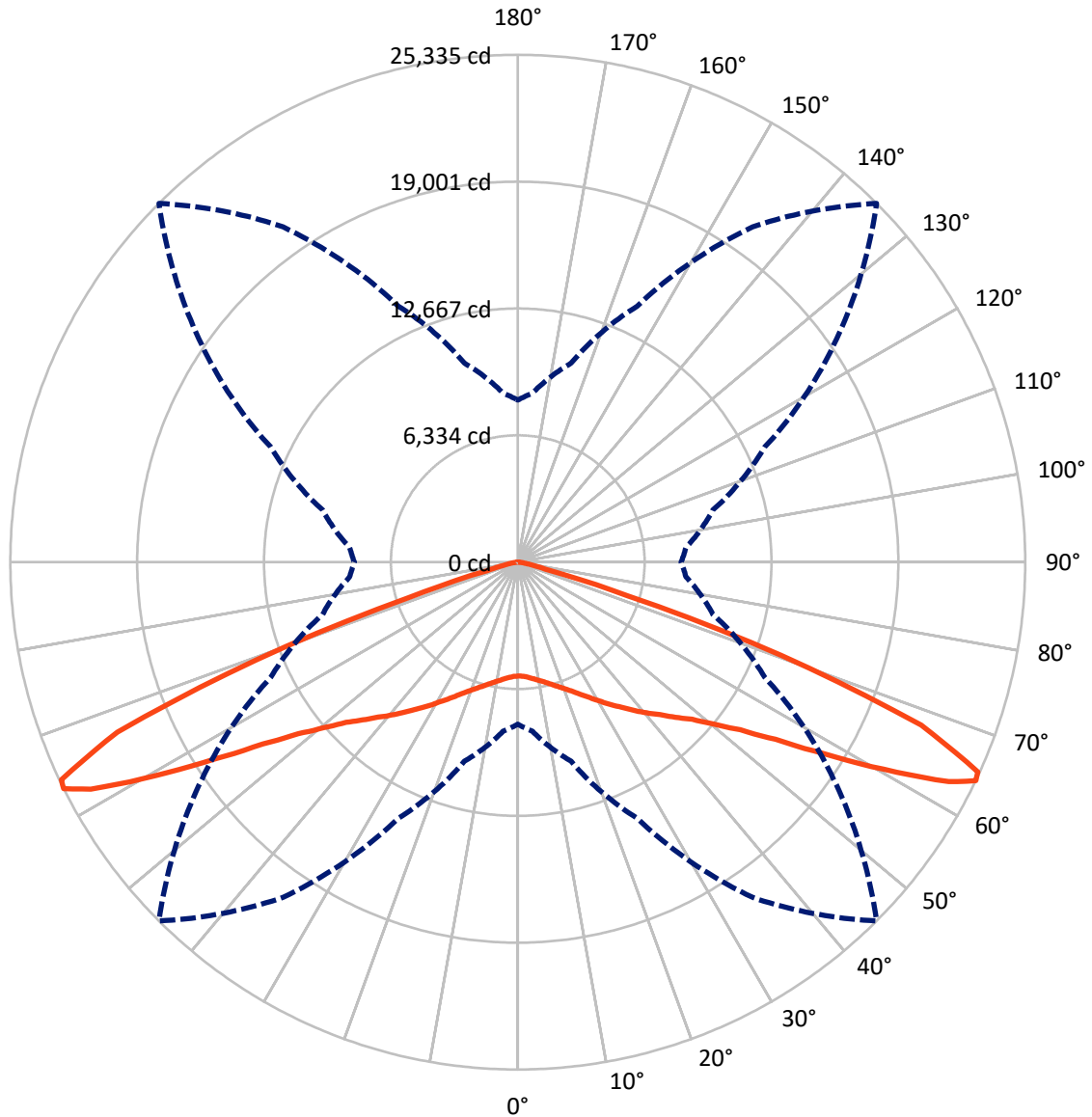
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	23514.0	0.0	23514.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23514.0	0.0	23514.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	47028.0	0.0	47028.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.4	1.2
10°-20°	1801.3	3.8
20°-30°	3403.9	7.2
30°-40°	5637.3	12.0
40°-50°	8800.7	18.7
50°-60°	13605.6	28.9
60°-70°	11732.0	24.9
70°-80°	1329.5	2.8
80°-90°	159.3	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°	47028.0	100.0
0°-180°	47028.0	100.0



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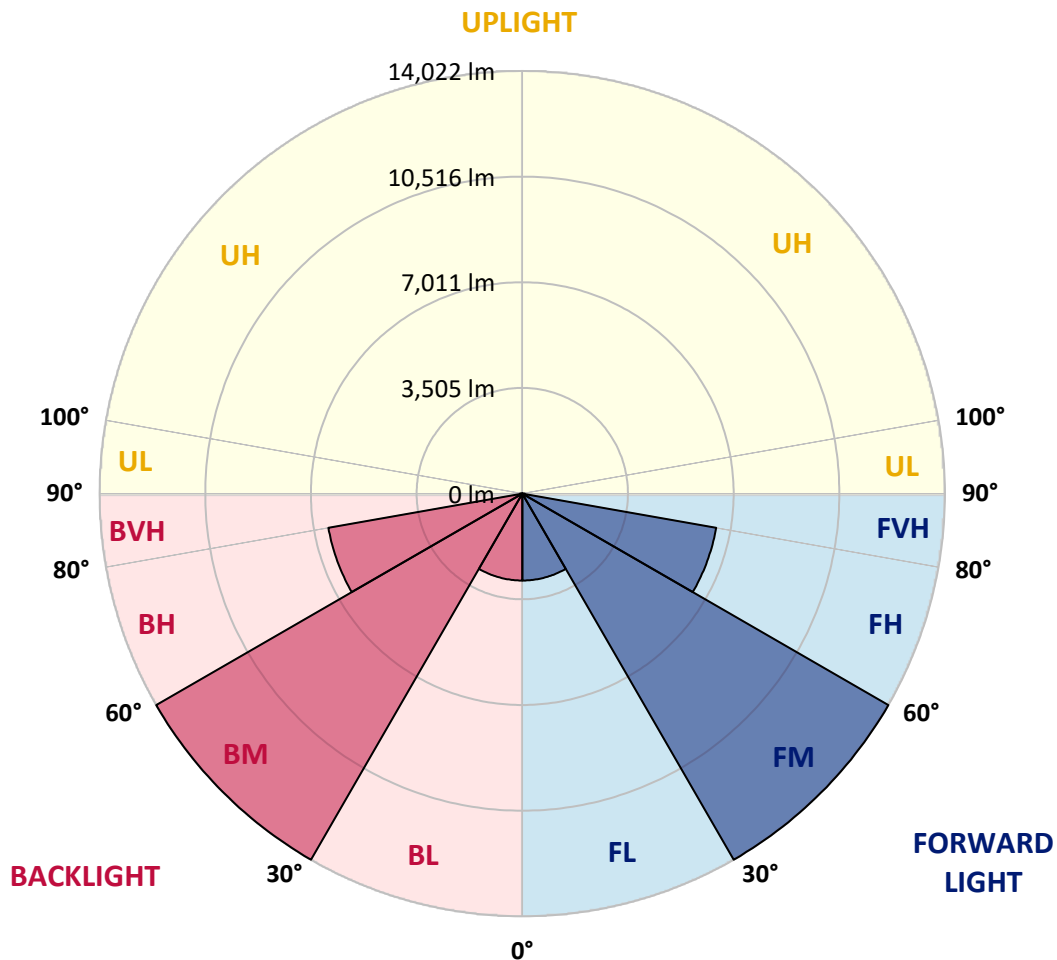
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2881.8	6.1			
FM (30°-60°)	14021.8	29.8			
FH (60°-80°)	6530.8	13.9			G3/7500
FVH (80°-90°)	79.6	0.2			G1/100
BL (0°-30°)	2881.8	6.1	B4/5000		
BM (30°-60°)	14021.8	29.8	B5		
BH (60°-80°)	6530.8	13.9	B5		G3/7500
BVH (80°-90°)	79.6	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5684.1	5684.1	5684.1	5684.1	5684.1	5684.1	5684.1	5684.1	5684.1	5684.1	5684.1
2.5°	5706.5	5719.0	5709.0	5706.5	5704.1	5704.1	5704.1	5706.5	5716.5	5724.0	5719.0
5°	5778.8	5788.7	5783.8	5781.3	5778.8	5778.8	5776.3	5773.8	5781.3	5781.3	5778.8
7.5°	5868.4	5880.9	5875.9	5880.9	5883.4	5885.9	5873.4	5863.5	5861.0	5868.4	5863.5
10°	5990.5	6000.5	6003.0	6005.4	6010.4	6007.9	5993.0	5975.6	5973.1	5970.6	5968.1
12.5°	6127.5	6135.0	6137.5	6147.4	6154.9	6157.4	6140.0	6125.0	6100.1	6105.1	6095.1
15°	6281.9	6296.9	6294.4	6309.3	6329.3	6334.2	6316.8	6291.9	6269.5	6257.0	6249.5
17.5°	6471.2	6481.2	6476.2	6491.2	6516.1	6528.5	6513.6	6481.2	6458.8	6431.4	6416.4
20°	6695.4	6712.8	6717.8	6717.8	6740.2	6752.7	6730.3	6720.3	6685.4	6665.5	6653.1
22.5°	6949.5	6957.0	6971.9	6986.8	7009.3	7004.3	6996.8	6981.9	6949.5	6932.0	6912.1
25°	7235.9	7243.4	7280.8	7313.1	7320.6	7315.6	7305.7	7298.2	7268.3	7228.5	7213.5
27.5°	7569.7	7584.6	7634.5	7664.4	7664.4	7666.8	7646.9	7671.8	7607.1	7559.7	7554.8
30°	7988.2	7998.1	8040.5	8070.4	8055.4	8043.0	8038.0	8062.9	7993.1	7908.5	7888.5
32.5°	8401.6	8436.5	8473.9	8538.6	8486.3	8463.9	8458.9	8476.4	8396.7	8302.0	8274.6
35°	8845.0	8869.9	8939.7	8994.5	8947.1	8894.8	8917.3	8972.0	8877.4	8750.4	8745.4
37.5°	9335.7	9358.1	9447.8	9505.1	9470.2	9380.5	9417.9	9482.7	9388.0	9231.1	9198.7
40°	9846.3	9893.7	10005.8	10065.5	10008.2	9888.7	9958.4	10028.2	9943.5	9761.6	9689.4
42.5°	10419.2	10494.0	10655.9	10685.8	10576.2	10414.3	10536.3	10648.4	10588.6	10379.4	10352.0
45°	11089.3	11134.1	11333.4	11398.1	11246.2	11044.4	11196.4	11400.6	11355.8	11114.2	11061.9
47.5°	11839.0	11881.4	12088.1	12185.2	11993.5	11722.0	11995.9	12262.5	12235.1	11976.0	11951.1
50°	12725.8	12735.7	13022.2	13131.8	12940.0	12705.8	12949.9	13281.2	13171.6	12840.3	12835.4
52.5°	13697.2	13709.7	14070.8	14282.5	14175.4	13911.4	14200.3	14402.1	14123.1	13689.7	13657.3
55°	14539.1	14601.4	15094.6	15657.5	15804.5	15612.7	15699.8	15605.2	14917.7	14309.9	14215.3
57.5°	14882.8	15004.9	15754.6	16805.8	17762.3	18046.2	17373.7	16472.0	15234.1	14374.7	14282.5
60°	14043.4	14175.4	15338.7	17333.8	19774.9	21007.8	19117.3	16619.0	14514.2	13306.1	13161.7
62.5°	11246.2	11283.6	12994.8	16090.9	20948.1	24141.3	19852.1	15366.1	12419.4	10777.9	10720.6
64°	8092.8	8476.4	10289.7	14108.2	20435.0	25334.5	19428.6	13610.0	10088.0	8426.6	8157.5
65°	6052.8	6157.4	8294.5	12048.3	19530.8	25244.8	18606.7	11931.2	8354.3	6448.8	6149.9
67.5°	2286.6	2299.1	3061.3	6005.4	13903.9	21720.2	14200.3	6491.2	3519.6	2545.7	2453.5
70°	949.0	966.5	1123.4	2020.1	5975.6	13946.3	6847.4	2341.4	1287.8	1043.7	1028.7
72.5°	694.9	704.9	752.2	896.7	1838.2	5726.5	2251.7	993.9	754.7	675.0	667.5
75°	545.5	550.5	585.4	660.1	856.9	1586.7	936.6	682.5	575.4	518.1	513.1
77.5°	416.0	428.4	453.3	503.2	575.4	752.2	620.2	510.6	443.4	396.0	388.6
80°	286.4	301.4	348.7	368.6	386.1	488.2	423.4	386.1	346.2	288.9	271.5
82.5°	176.9	186.8	234.1	251.6	244.1	274.0	271.5	276.5	246.6	179.3	166.9
85°	92.2	97.1	127.0	132.0	122.1	112.1	139.5	161.9	151.9	102.1	99.6
87.5°	19.9	22.4	27.4	24.9	27.4	27.4	34.9	52.3	54.8	34.9	32.4
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)