

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: P531604

Luminaire Tested: **GALN-SA6D-830-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531604
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-830-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 32834 lumens
Efficiency: N/A
Efficacy: 89.2 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



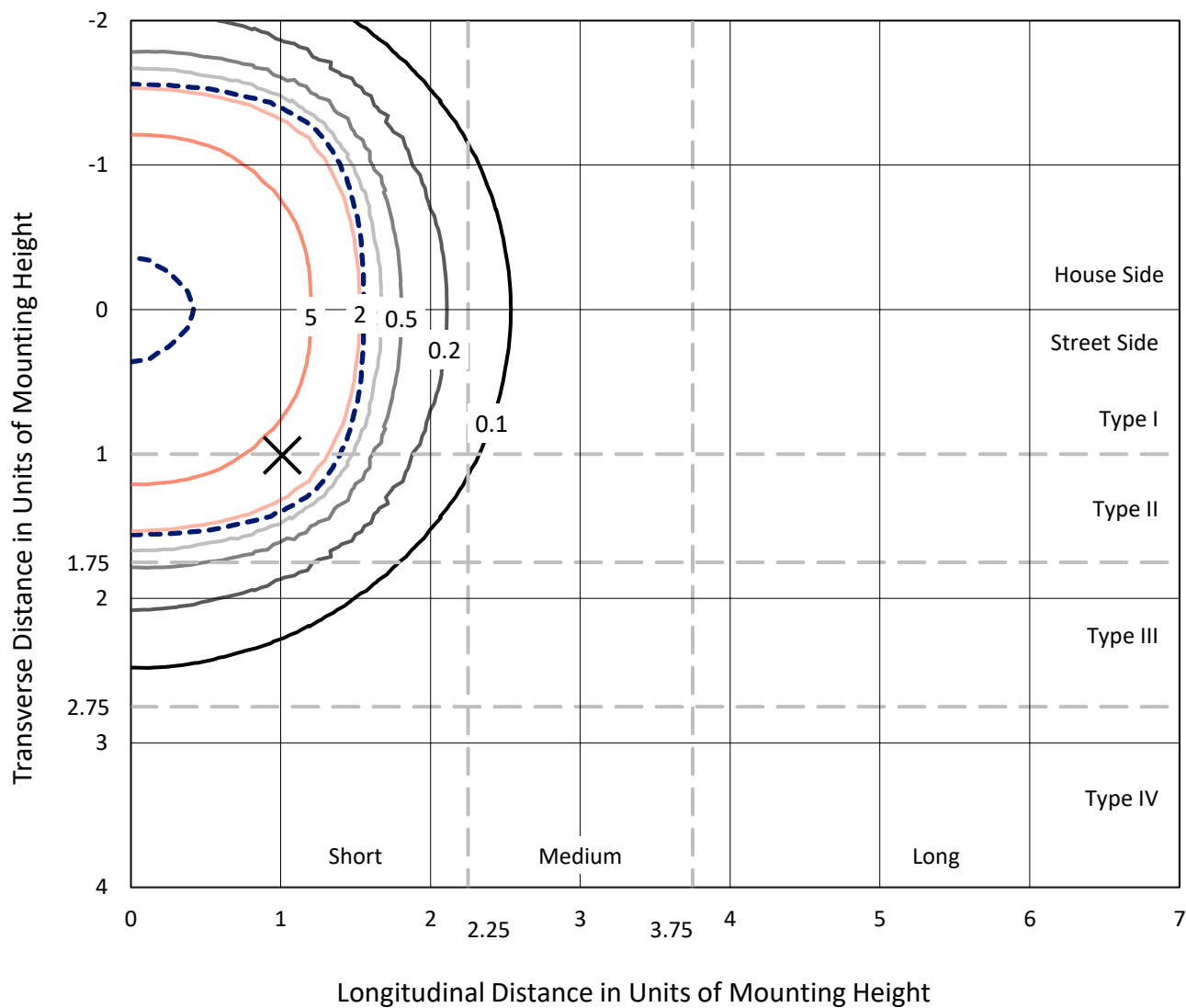
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

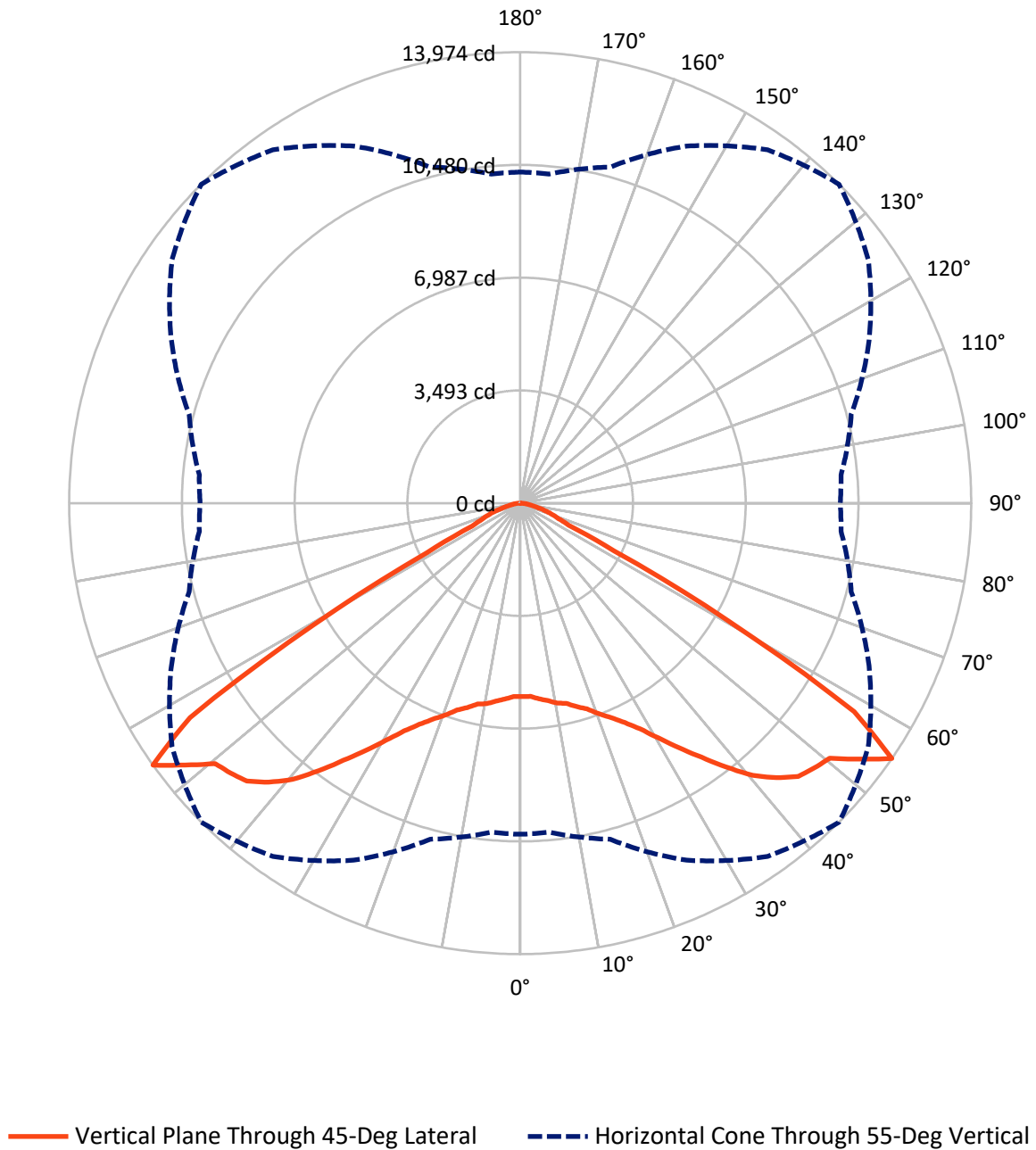


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc

Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16417.0	0.0	16417.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16417.0	0.0	16417.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32834.0	0.0	32834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.7	1.8
10°-20°	1855.7	5.7
20°-30°	3460.2	10.5
30°-40°	5793.5	17.6
40°-50°	9015.1	27.5
50°-60°	9360.5	28.5
60°-70°	1985.1	6.0
70°-80°	653.8	2.0
80°-90°	124.5	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°	32834.0	100.0
0°-180°	32834.0	100.0

Coefficient of Utilization



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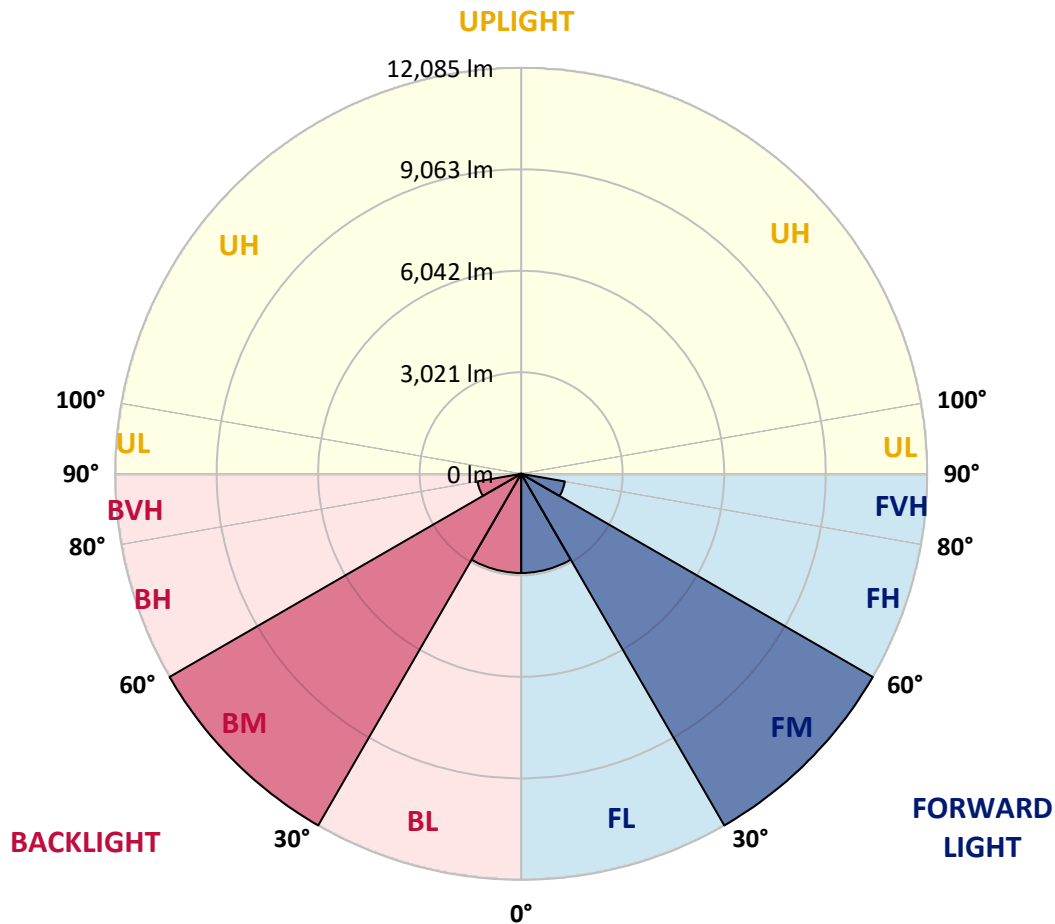
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2950.8	9.0			
FM	(30°-60°)	12084.6	36.8			
FH	(60°-80°)	1319.4	4.0			G1/1800
FVH	(80°-90°)	62.2	0.2			G1/100
BL	(0°-30°)	2950.8	9.0	B4/5000		
BM	(30°-60°)	12084.6	36.8	B5		
BH	(60°-80°)	1319.4	4.0	B3/2500		G1/1800
BVH	(80°-90°)	62.2	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°	5995.0	5995.0	5995.0	5995.0	5995.0	5995.0	5995.0	5995.0	5995.0	5995.0	5995.0
2.5°	6066.4	6038.6	5991.0	6026.7	6054.5	5995.0	6018.8	6030.7	6022.8	5991.0	6002.9
5°	6153.7	6137.8	6098.2	6125.9	6090.2	6090.2	6066.4	6034.7	6082.3	6074.4	6094.2
7.5°	6153.7	6133.9	6213.2	6161.6	6177.5	6177.5	6137.8	6106.1	6129.9	6094.2	6074.4
10°	6276.7	6304.5	6268.8	6280.7	6272.7	6300.5	6241.0	6221.2	6201.3	6189.4	6165.6
12.5°	6423.5	6403.7	6415.6	6407.6	6435.4	6364.0	6328.3	6284.6	6320.3	6268.8	6304.5
15°	6542.5	6530.6	6542.5	6574.3	6546.5	6542.5	6479.0	6435.4	6379.9	6391.8	6336.2
17.5°	6705.2	6693.3	6697.3	6725.0	6721.1	6701.2	6653.6	6570.3	6550.5	6518.7	6483.0
20°	6947.2	6927.4	6919.4	6931.3	6951.2	6967.1	6871.8	6840.1	6772.6	6721.1	6661.6
22.5°	7153.5	7145.6	7177.3	7125.8	7169.4	7217.0	7125.8	7109.9	6943.2	6915.5	6852.0
25°	7439.2	7427.3	7407.5	7482.8	7534.4	7530.4	7443.2	7355.9	7228.9	7197.2	7197.2
27.5°	7740.7	7673.3	7776.4	7796.3	7887.5	7915.3	7839.9	7713.0	7593.9	7526.5	7542.4
30°	8117.6	8054.2	8078.0	8220.8	8339.8	8443.0	8252.5	8066.1	7899.4	7780.4	7760.6
32.5°	8494.6	8431.1	8502.5	8641.4	8879.4	9034.2	8847.7	8522.3	8327.9	8153.4	8189.1
35°	8800.1	8847.7	8962.7	9173.0	9419.0	9669.0	9371.4	9121.4	8843.7	8649.3	8677.1
37.5°	9292.0	9438.8	9530.1	9772.1	10121.3	10379.2	10069.7	9744.4	9446.8	9192.9	9105.6
40°	9934.8	10034.0	10137.1	10422.8	10835.4	11093.3	10799.7	10375.2	10081.6	9819.7	9807.8
42.5°	10641.0	10736.2	10843.4	11192.5	11438.5	11632.9	11363.1	11137.0	10811.6	10605.3	10593.4
45°	11462.3	11394.9	11513.9	11744.0	11950.3	12077.3	11902.7	11791.6	11557.5	11367.1	11347.3
47.5°	12009.8	11950.3	12164.6	12370.9	12402.6	12263.8	12299.5	12402.6	12156.6	11843.2	11942.4
50°	12327.2	12327.2	12470.1	12660.5	12601.0	12422.5	12704.2	12712.1	12466.1	12188.4	12188.4
52.5°	11775.7	11898.7	12303.4	12926.3	13124.7	13176.3	13112.8	12843.0	12200.3	11632.9	11605.1
55°	10260.1	10232.4	10779.9	12208.2	13362.8	13973.8	13164.4	11922.5	10617.2	9978.4	9915.0
57.5°	6673.5	6705.2	7522.5	8978.6	11061.6	12200.3	10835.4	9089.7	7522.5	6641.7	6725.0
60°	3003.5	3110.6	3606.5	4693.6	6483.0	7411.4	6498.9	4931.7	3785.1	3285.1	3328.8
62.5°	1725.9	1745.7	1765.6	2094.9	2761.4	3265.3	2868.6	2213.9	1952.0	1864.8	1864.8
65°	1456.1	1444.2	1448.2	1475.9	1547.4	1650.5	1606.9	1547.4	1555.3	1547.4	1535.4
67.5°	1237.9	1253.8	1241.8	1261.7	1265.7	1281.5	1309.3	1333.1	1337.1	1345.0	1337.1
70°	1015.7	1019.7	1027.6	1043.5	1047.4	1059.3	1099.0	1118.9	1130.8	1130.8	1146.6
72.5°	777.6	773.7	781.6	797.5	817.3	821.3	857.0	884.8	900.6	880.8	884.8
75°	511.8	515.8	527.7	539.6	567.4	595.1	607.0	634.8	638.8	646.7	626.9
77.5°	305.5	313.4	325.3	349.1	373.0	396.8	424.5	444.4	452.3	444.4	420.6
80°	198.4	198.4	214.2	234.1	261.9	281.7	297.6	313.4	325.3	313.4	305.5
82.5°	123.0	123.0	142.8	166.6	186.5	198.4	222.2	242.0	253.9	246.0	234.1
85°	63.5	67.4	83.3	103.2	119.0	127.0	123.0	111.1	99.2	95.2	87.3
87.5°	19.8	19.8	23.8	23.8	19.8	19.8	23.8	19.8	23.8	23.8	23.8
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)