

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: P531448

Luminaire Tested: **GALN-SA6D-730-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531448
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-730-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 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: 37630 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

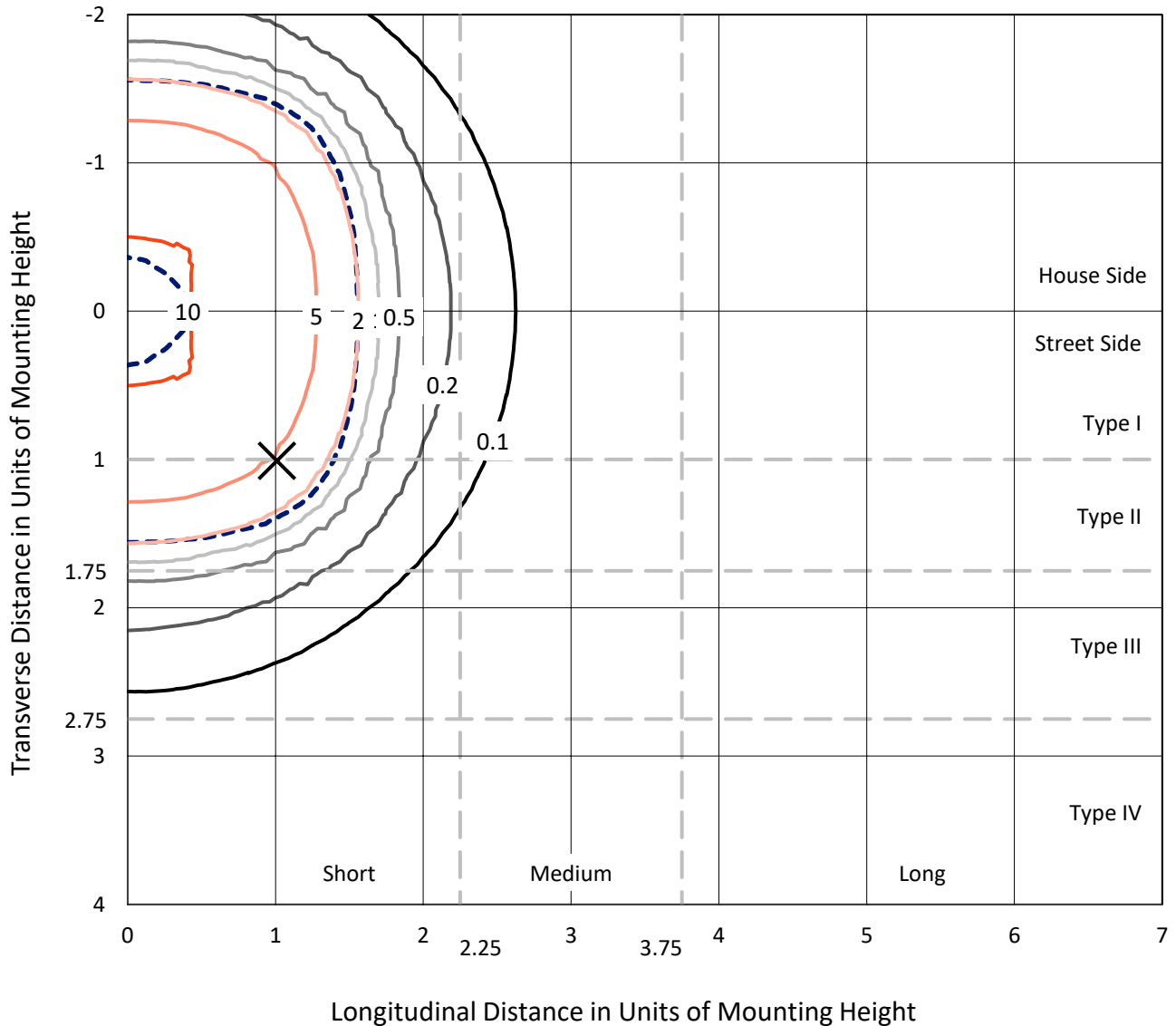
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531448
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Iso-Footcandle Lines of Horizontal Illumination

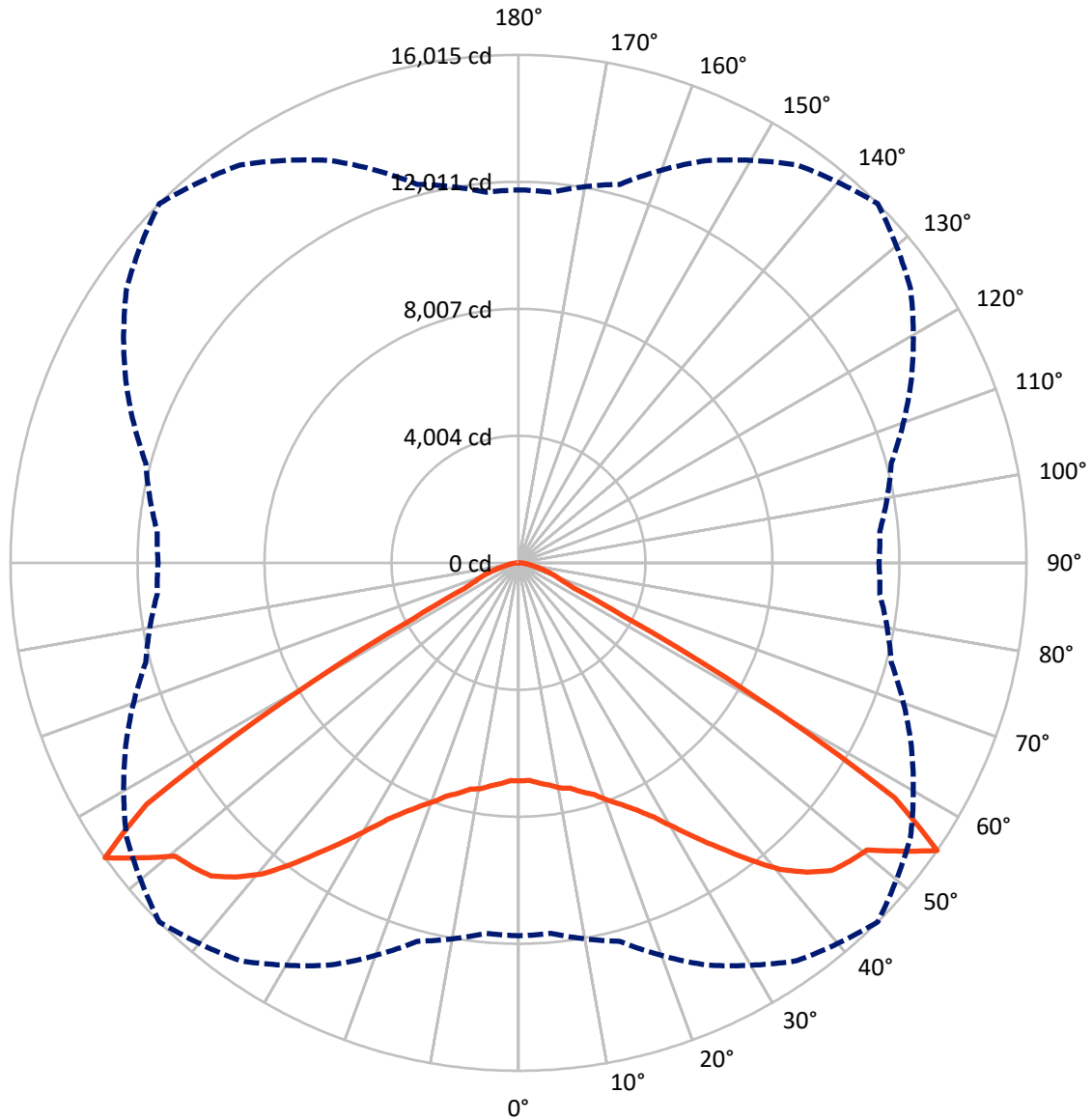
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type V - Short - N/A

REPORT NUMBER: P531448
CATALOG NUMBER: GALN-SA6D-730-U-5NQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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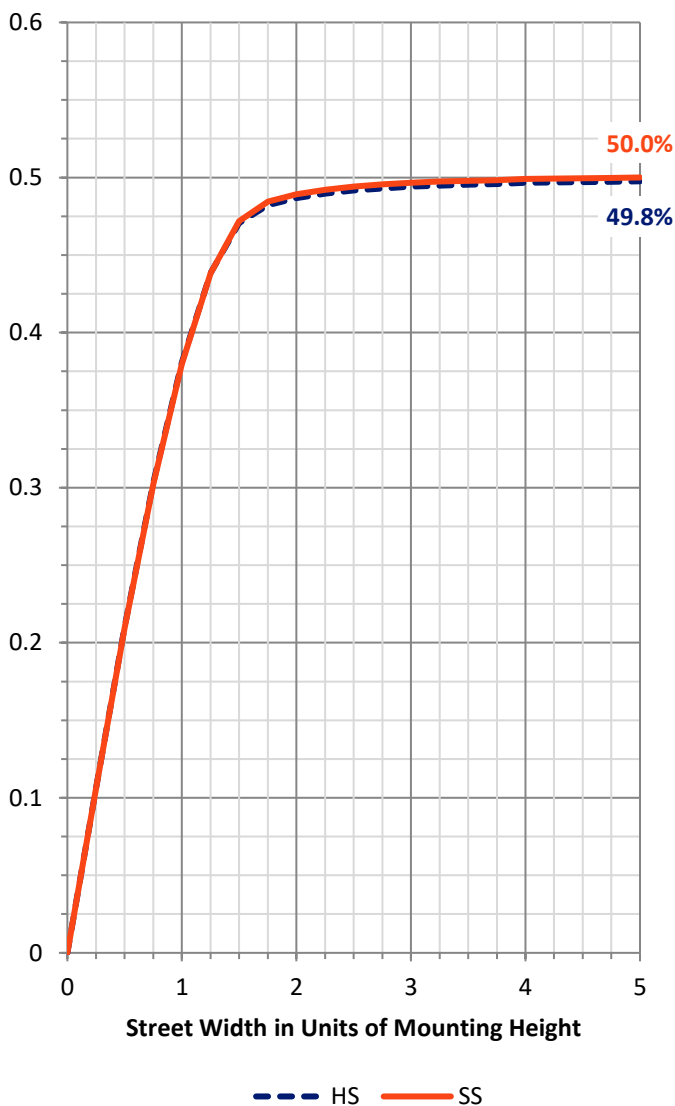
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18815.0	0.0	18815.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18815.0	0.0	18815.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37630.0	0.0	37630.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.2	1.8
10°-20°	2126.7	5.7
20°-30°	3965.6	10.5
30°-40°	6639.7	17.6
40°-50°	10332.0	27.5
50°-60°	10727.8	28.5
60°-70°	2275.0	6.0
70°-80°	749.2	2.0
80°-90°	142.7	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°	37630.0	100.0
0°-180°	37630.0	100.0

Coefficient of Utilization



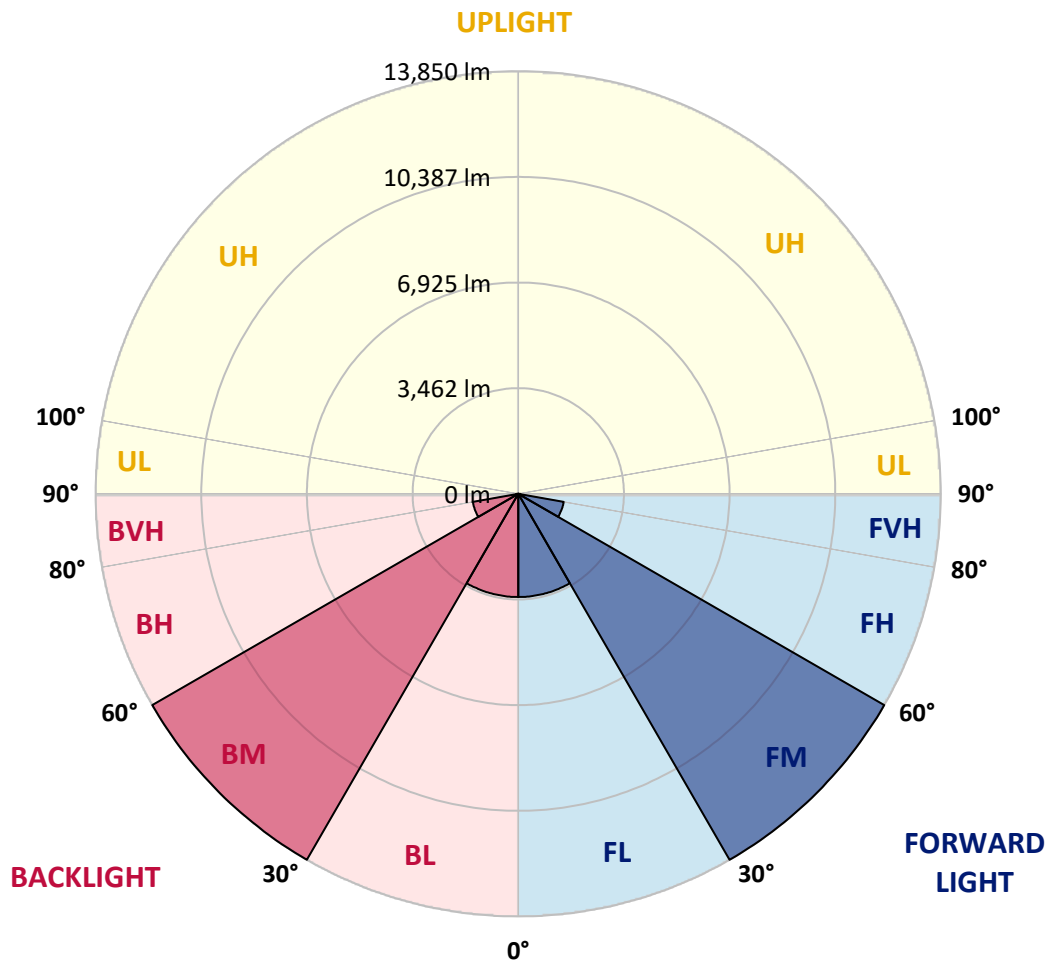
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 CATALOG NUMBER: GALN-SA6D-730-U-5NQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3381.8	9.0			
FM (30°-60°)	13849.8	36.8			
FH (60°-80°)	1512.1	4.0			G1/1800
FVH (80°-90°)	71.3	0.2			G1/100
BL (0°-30°)	3381.8	9.0	B4/5000		
BM (30°-60°)	13849.8	36.8	B5		
BH (60°-80°)	1512.1	4.0	B3/2500		G1/1800
BVH (80°-90°)	71.3	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°	6870.7	6870.7	6870.7	6870.7	6870.7	6870.7	6870.7	6870.7	6870.7	6870.7	6870.7
2.5°	6952.5	6920.7	6866.1	6907.1	6938.9	6870.7	6898.0	6911.6	6902.5	6866.1	6879.8
5°	7052.6	7034.4	6988.9	7020.7	6979.8	6979.8	6952.5	6916.1	6970.7	6961.6	6984.4
7.5°	7052.6	7029.8	7120.8	7061.7	7079.8	7079.8	7034.4	6998.0	7025.3	6984.4	6961.6
10°	7193.5	7225.4	7184.4	7198.1	7189.0	7220.8	7152.6	7129.9	7107.1	7093.5	7066.2
12.5°	7361.8	7339.0	7352.7	7343.6	7375.4	7293.6	7252.6	7202.6	7243.5	7184.4	7225.4
15°	7498.2	7484.5	7498.2	7534.6	7502.7	7498.2	7425.4	7375.4	7311.7	7325.4	7261.7
17.5°	7684.6	7671.0	7675.5	7707.3	7702.8	7680.1	7625.5	7530.0	7507.3	7470.9	7430.0
20°	7962.0	7939.2	7930.2	7943.8	7966.5	7984.7	7875.6	7839.2	7761.9	7702.8	7634.6
22.5°	8198.4	8189.3	8225.7	8166.6	8216.6	8271.2	8166.6	8148.4	7957.4	7925.6	7852.9
25°	8525.8	8512.2	8489.4	8575.8	8635.0	8630.4	8530.4	8430.3	8284.8	8248.4	8248.4
27.5°	8871.4	8794.1	8912.3	8935.1	9039.6	9071.5	8985.1	8839.6	8703.2	8625.9	8644.0
30°	9303.4	9230.6	9257.9	9421.6	9558.0	9676.2	9458.0	9244.3	9053.3	8916.9	8894.1
32.5°	9735.4	9662.6	9744.4	9903.6	10176.4	10353.8	10140.0	9767.2	9544.4	9344.3	9385.2
35°	10085.5	10140.0	10271.9	10512.9	10794.8	11081.3	10740.3	10453.8	10135.5	9912.7	9944.5
37.5°	10649.3	10817.6	10922.1	11199.5	11599.7	11895.2	11540.6	11167.7	10826.7	10535.6	10435.6
40°	11386.0	11499.6	11617.9	11945.2	12418.1	12713.7	12377.2	11890.7	11554.2	11254.1	11240.4
42.5°	12195.3	12304.5	12427.2	12827.4	13109.3	13332.1	13022.9	12763.7	12390.9	12154.4	12140.8
45°	13136.6	13059.3	13195.7	13459.4	13695.9	13841.4	13641.3	13514.0	13245.7	13027.5	13004.7
47.5°	13764.1	13695.9	13941.4	14177.9	14214.3	14055.1	14096.0	14214.3	13932.3	13573.1	13686.8
50°	14127.9	14127.9	14291.6	14509.8	14441.6	14237.0	14559.8	14568.9	14287.0	13968.7	13968.7
52.5°	13495.8	13636.8	14100.6	14814.5	15041.8	15100.9	15028.2	14719.0	13982.4	13332.1	13300.3
55°	11758.8	11727.0	12354.5	13991.4	15314.7	16014.9	15087.3	13664.1	12168.1	11436.0	11363.2
57.5°	7648.2	7684.6	8621.3	10290.1	12677.3	13982.4	12418.1	10417.4	8621.3	7611.9	7707.3
60°	3442.2	3564.9	4133.3	5379.2	7430.0	8494.0	7448.2	5652.1	4337.9	3765.0	3815.0
62.5°	1978.0	2000.7	2023.5	2400.9	3164.8	3742.3	3287.6	2537.3	2237.2	2137.1	2137.1
65°	1668.8	1655.1	1659.7	1691.5	1773.4	1891.6	1841.6	1773.4	1782.5	1773.4	1759.7
67.5°	1418.7	1436.9	1423.2	1446.0	1450.5	1468.7	1500.5	1527.8	1532.4	1541.5	1532.4
70°	1164.1	1168.6	1177.7	1195.9	1200.4	1214.1	1259.5	1282.3	1295.9	1295.9	1314.1
72.5°	891.2	886.7	895.8	914.0	936.7	941.3	982.2	1014.0	1032.2	1009.5	1014.0
75°	586.6	591.1	604.8	618.4	650.2	682.1	695.7	727.5	732.1	741.2	718.4
77.5°	350.1	359.2	372.9	400.1	427.4	454.7	486.5	509.3	518.4	509.3	482.0
80°	227.4	227.4	245.5	268.3	300.1	322.8	341.0	359.2	372.9	359.2	350.1
82.5°	141.0	141.0	163.7	191.0	213.7	227.4	254.6	277.4	291.0	281.9	268.3
85°	72.8	77.3	95.5	118.2	136.4	145.5	141.0	127.3	113.7	109.1	100.0
87.5°	22.7	22.7	27.3	27.3	22.7	22.7	27.3	22.7	27.3	27.3	27.3
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)