

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: P530512

Luminaire Tested: **GALN-SA5D-730-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530512  
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-SA5D-730-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 31779 lumens  
Efficiency: N/A  
Efficacy: 102.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

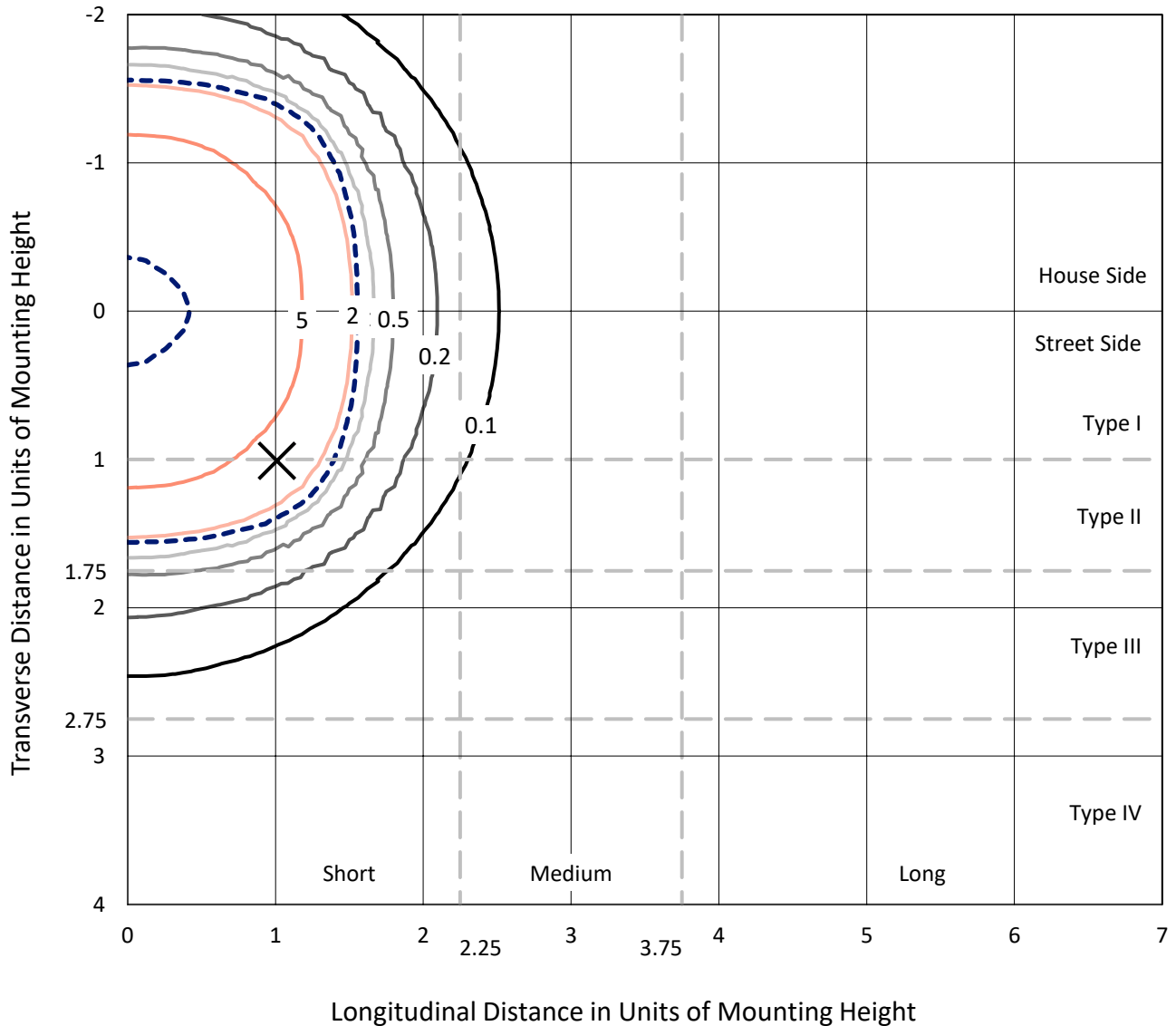
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

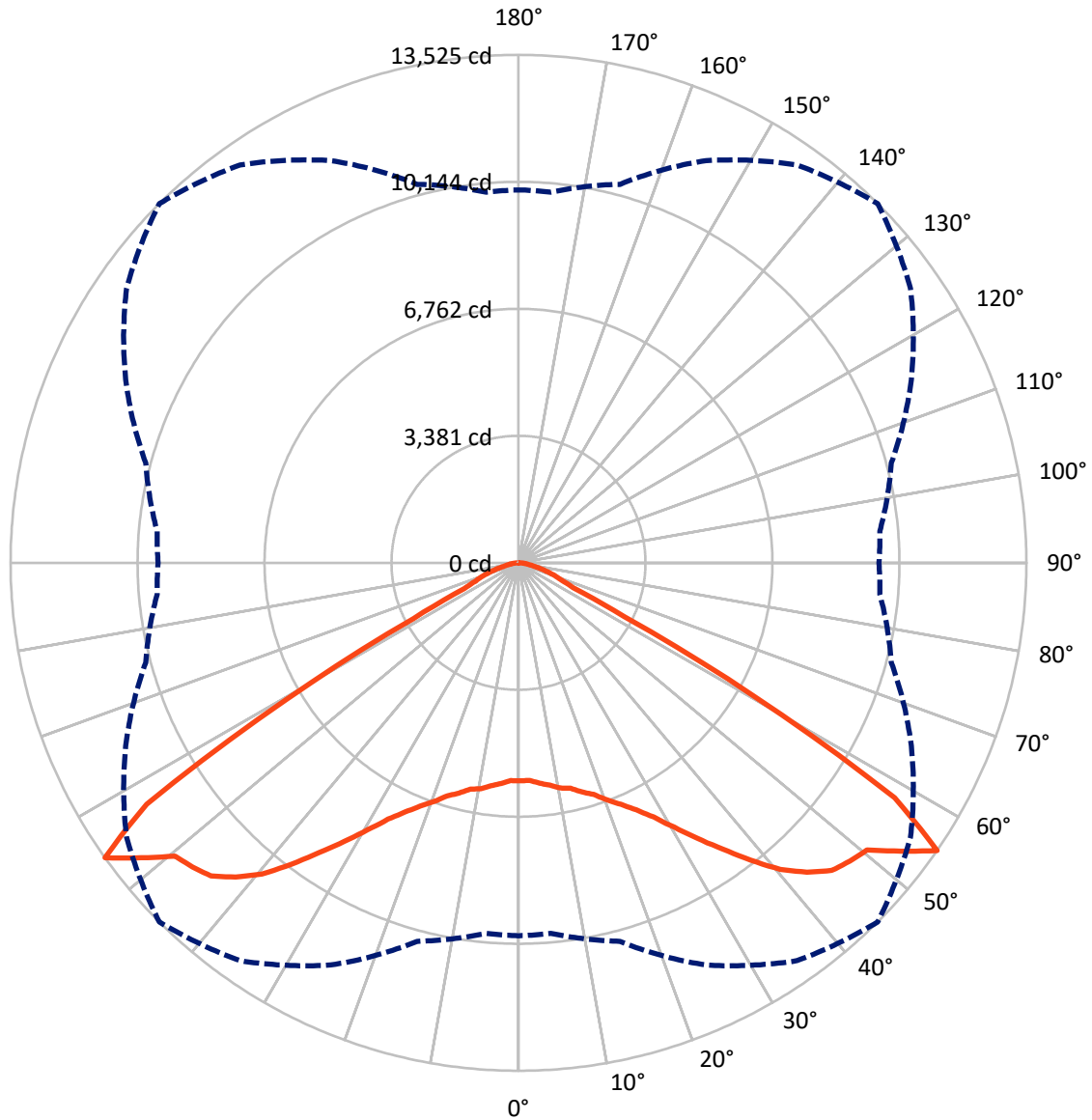
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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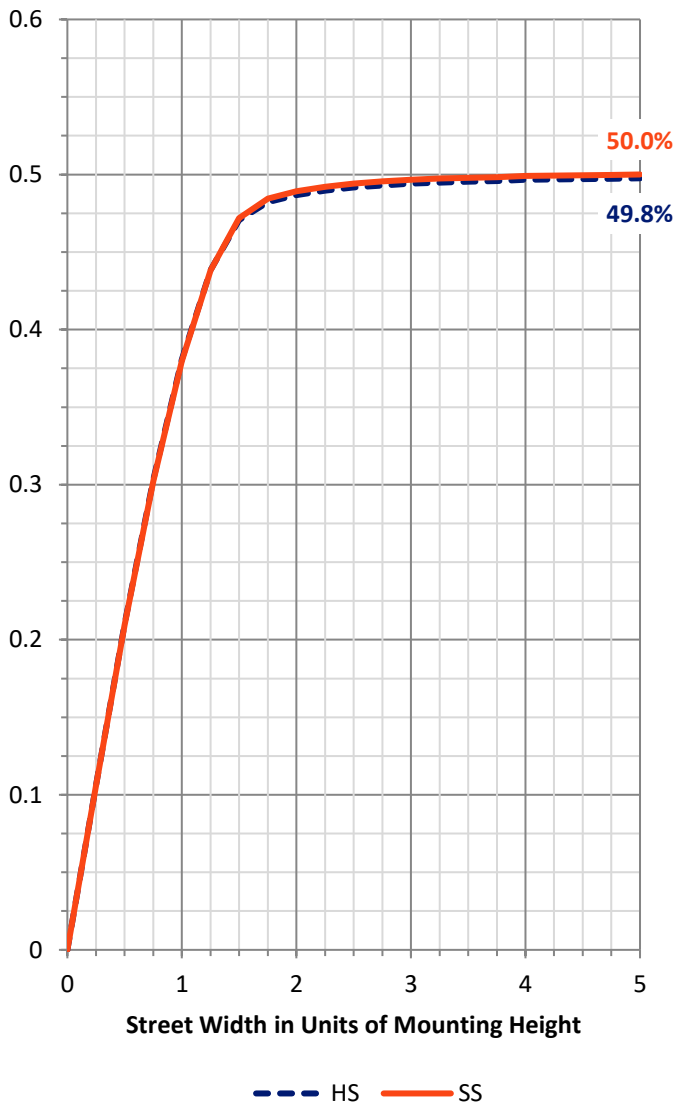
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15889.5	0.0	15889.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15889.5	0.0	15889.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31779.0	0.0	31779.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	566.8	1.8
10°-20°	1796.0	5.7
20°-30°	3349.0	10.5
30°-40°	5607.3	17.6
40°-50°	8725.5	27.5
50°-60°	9059.8	28.5
60°-70°	1921.3	6.0
70°-80°	632.7	2.0
80°-90°	120.5	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°	31779.0	100.0
0°-180°	31779.0	100.0

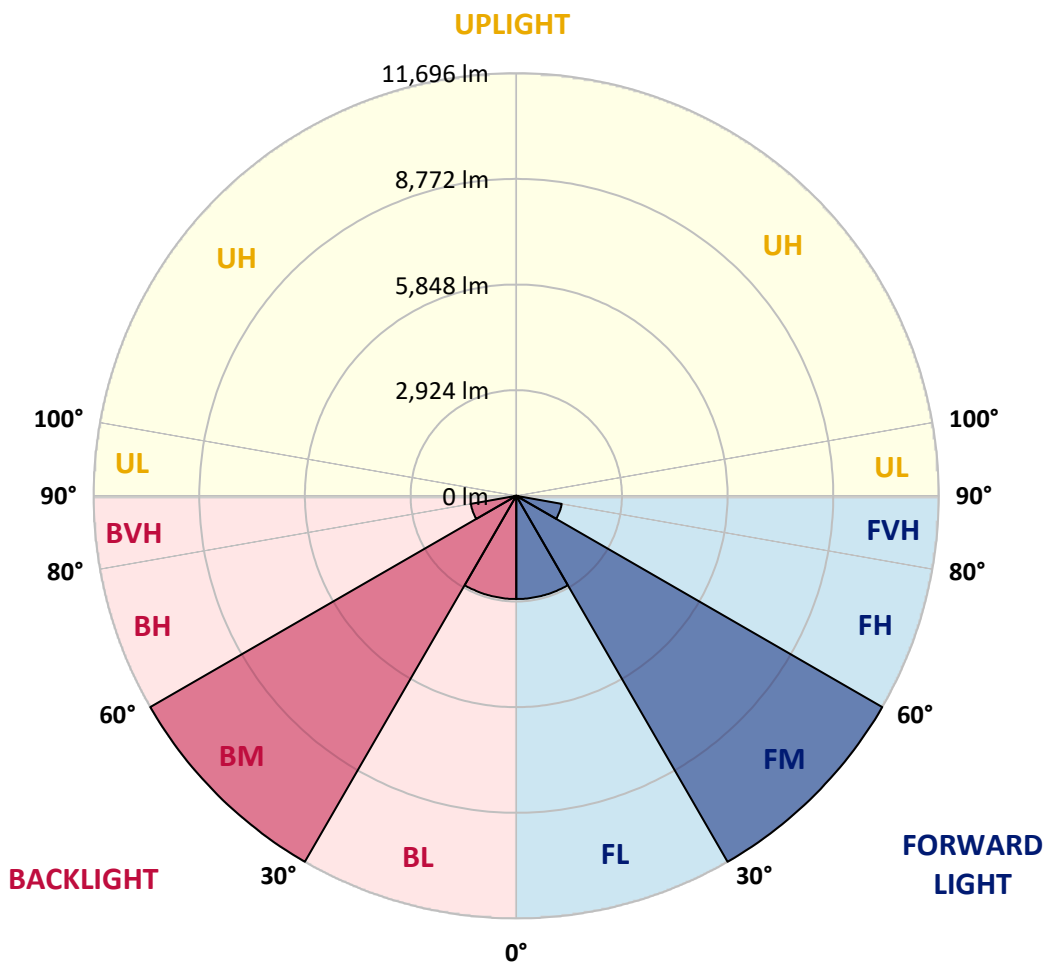


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2855.9	9.0			
FM (30°-60°)	11696.3	36.8			
FH (60°-80°)	1277.0	4.0			G1/1800
FVH (80°-90°)	60.2	0.2			G1/100
BL (0°-30°)	2855.9	9.0	B4/5000		
BM (30°-60°)	11696.3	36.8	B5		
BH (60°-80°)	1277.0	4.0	B3/2500		G1/1800
BVH (80°-90°)	60.2	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°	5802.4	5802.4	5802.4	5802.4	5802.4	5802.4	5802.4	5802.4	5802.4	5802.4	5802.4
2.5°	5871.5	5844.6	5798.5	5833.1	5860.0	5802.4	5825.4	5836.9	5829.3	5798.5	5810.1
5°	5956.0	5940.6	5902.2	5929.1	5894.5	5894.5	5871.5	5840.8	5886.9	5879.2	5898.4
7.5°	5956.0	5936.8	6013.6	5963.7	5979.0	5979.0	5940.6	5909.9	5932.9	5898.4	5879.2
10°	6075.0	6101.9	6067.3	6078.9	6071.2	6098.1	6040.5	6021.3	6002.1	5990.5	5967.5
12.5°	6217.1	6197.9	6209.4	6201.7	6228.6	6159.5	6124.9	6082.7	6117.3	6067.3	6101.9
15°	6332.3	6320.8	6332.3	6363.0	6336.1	6332.3	6270.9	6228.6	6174.9	6186.4	6132.6
17.5°	6489.7	6478.2	6482.1	6508.9	6505.1	6485.9	6439.8	6359.2	6340.0	6309.3	6274.7
20°	6724.0	6704.8	6697.1	6708.6	6727.8	6743.2	6651.0	6620.3	6555.0	6505.1	6447.5
22.5°	6923.7	6916.0	6946.7	6896.8	6939.0	6985.1	6896.8	6881.4	6720.2	6693.3	6631.8
25°	7200.2	7188.6	7169.4	7242.4	7292.3	7288.5	7204.0	7119.5	6996.6	6965.9	6965.9
27.5°	7492.0	7426.7	7526.6	7545.8	7634.1	7661.0	7588.0	7465.1	7349.9	7284.6	7300.0
30°	7856.8	7795.4	7818.4	7956.7	8071.9	8171.7	7987.4	7806.9	7645.6	7530.4	7511.2
32.5°	8221.6	8160.2	8229.3	8363.7	8594.1	8743.9	8563.4	8248.5	8060.3	7891.4	7925.9
35°	8517.3	8563.4	8674.8	8878.3	9116.4	9358.3	9070.3	8828.4	8559.6	8371.4	8398.3
37.5°	8993.5	9135.6	9223.9	9458.1	9796.1	10045.7	9746.1	9431.3	9143.2	8897.5	8813.0
40°	9615.6	9711.6	9811.4	10087.9	10487.3	10736.9	10452.7	10041.8	9757.7	9504.2	9492.7
42.5°	10299.1	10391.3	10495.0	10832.9	11071.0	11259.1	10998.0	10779.1	10464.2	10264.6	10253.0
45°	11094.0	11028.7	11143.9	11366.7	11566.3	11689.2	11520.3	11412.7	11186.2	11001.8	10982.6
47.5°	11623.9	11566.3	11773.7	11973.4	12004.1	11869.7	11904.3	12004.1	11766.0	11462.7	11558.7
50°	11931.2	11931.2	12069.4	12253.7	12196.1	12023.3	12296.0	12303.6	12065.6	11796.7	11796.7
52.5°	11397.4	11516.4	11908.1	12511.0	12703.0	12752.9	12691.5	12430.4	11808.3	11259.1	11232.3
55°	9930.5	9903.6	10433.5	11815.9	12933.4	13524.8	12741.4	11539.5	10276.1	9657.8	9596.4
57.5°	6459.0	6489.7	7280.8	8690.1	10706.2	11808.3	10487.3	8797.6	7280.8	6428.3	6508.9
60°	2906.9	3010.6	3490.6	4542.8	6274.7	7173.3	6290.1	4773.2	3663.4	3179.6	3221.8
62.5°	1670.4	1689.6	1708.8	2027.6	2672.7	3160.4	2776.4	2142.8	1889.3	1804.8	1804.8
65°	1409.3	1397.8	1401.6	1428.5	1497.6	1597.5	1555.2	1497.6	1505.3	1497.6	1486.1
67.5°	1198.1	1213.5	1201.9	1221.1	1225.0	1240.3	1267.2	1290.3	1294.1	1301.8	1294.1
70°	983.1	986.9	994.6	1009.9	1013.8	1025.3	1063.7	1082.9	1094.4	1094.4	1109.8
72.5°	752.7	748.8	756.5	771.9	791.1	794.9	829.5	856.3	871.7	852.5	856.3
75°	495.4	499.2	510.7	522.3	549.1	576.0	587.5	614.4	618.3	625.9	606.7
77.5°	295.7	303.4	314.9	337.9	361.0	384.0	410.9	430.1	437.8	430.1	407.0
80°	192.0	192.0	207.4	226.6	253.4	272.6	288.0	303.4	314.9	303.4	295.7
82.5°	119.0	119.0	138.2	161.3	180.5	192.0	215.0	234.2	245.8	238.1	226.6
85°	61.4	65.3	80.6	99.8	115.2	122.9	119.0	107.5	96.0	92.2	84.5
87.5°	19.2	19.2	23.0	23.0	19.2	19.2	23.0	19.2	23.0	23.0	23.0
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)