

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: P530510

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530510
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
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-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31142 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

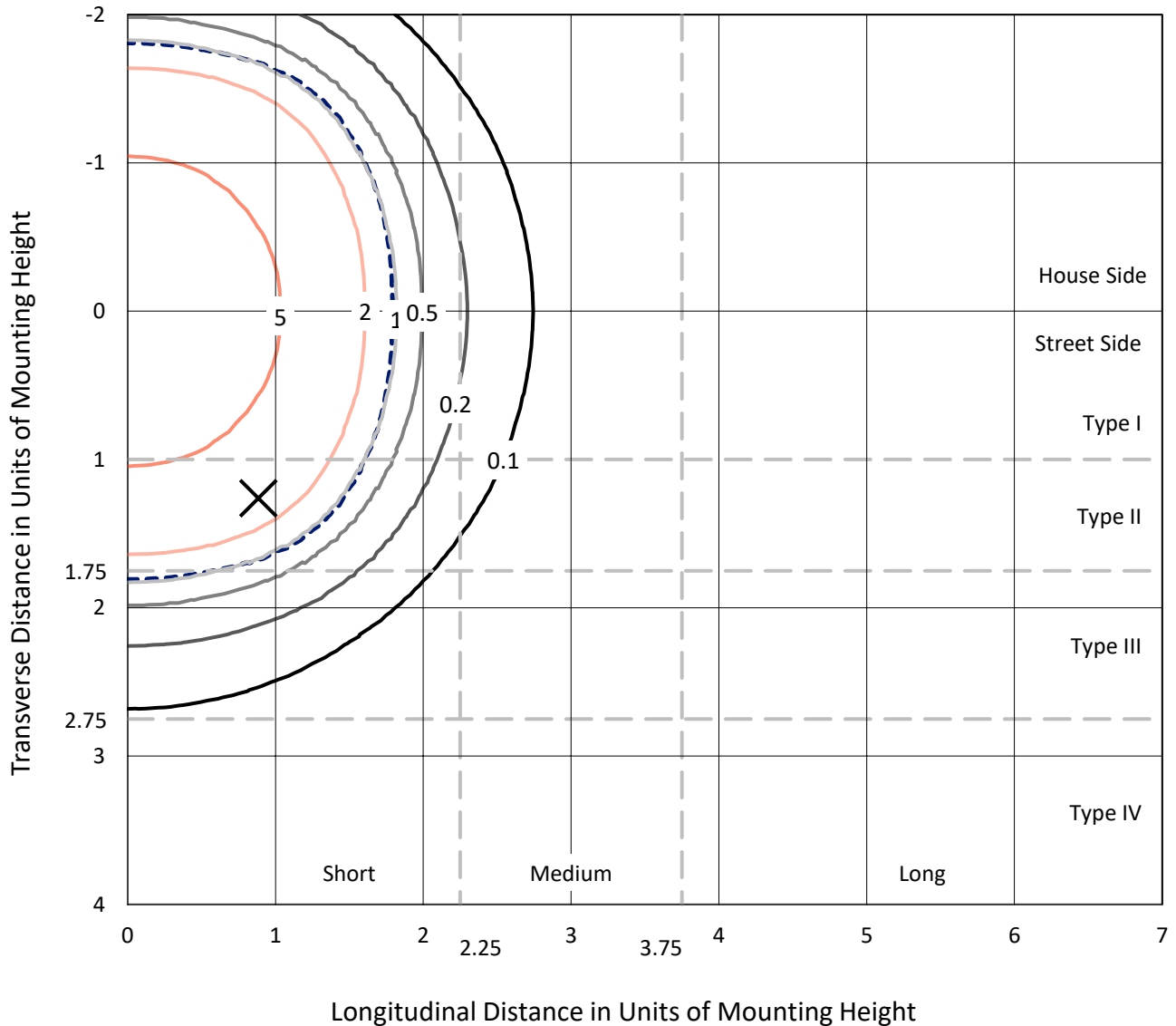
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

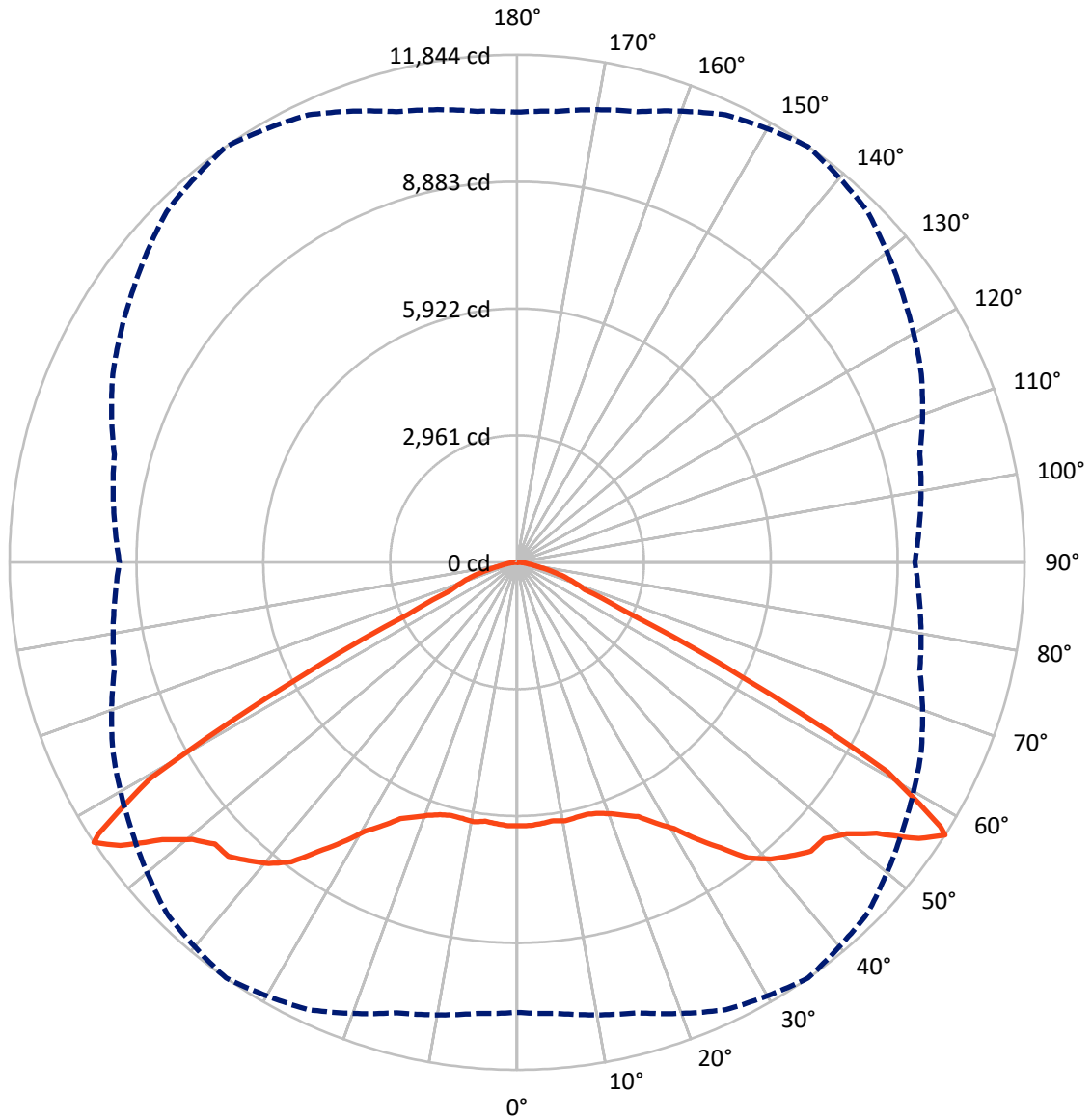
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15571.0	0.0	15571.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15571.0	0.0	15571.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31142.0	0.0	31142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.1	1.9
10°-20°	1726.9	5.5
20°-30°	3016.0	9.7
30°-40°	4941.8	15.9
40°-50°	7245.9	23.3
50°-60°	9126.7	29.3
60°-70°	3432.5	11.0
70°-80°	912.7	2.9
80°-90°	156.5	0.5
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°	31142.0	100.0
0°-180°	31142.0	100.0

Coefficient of Utilization



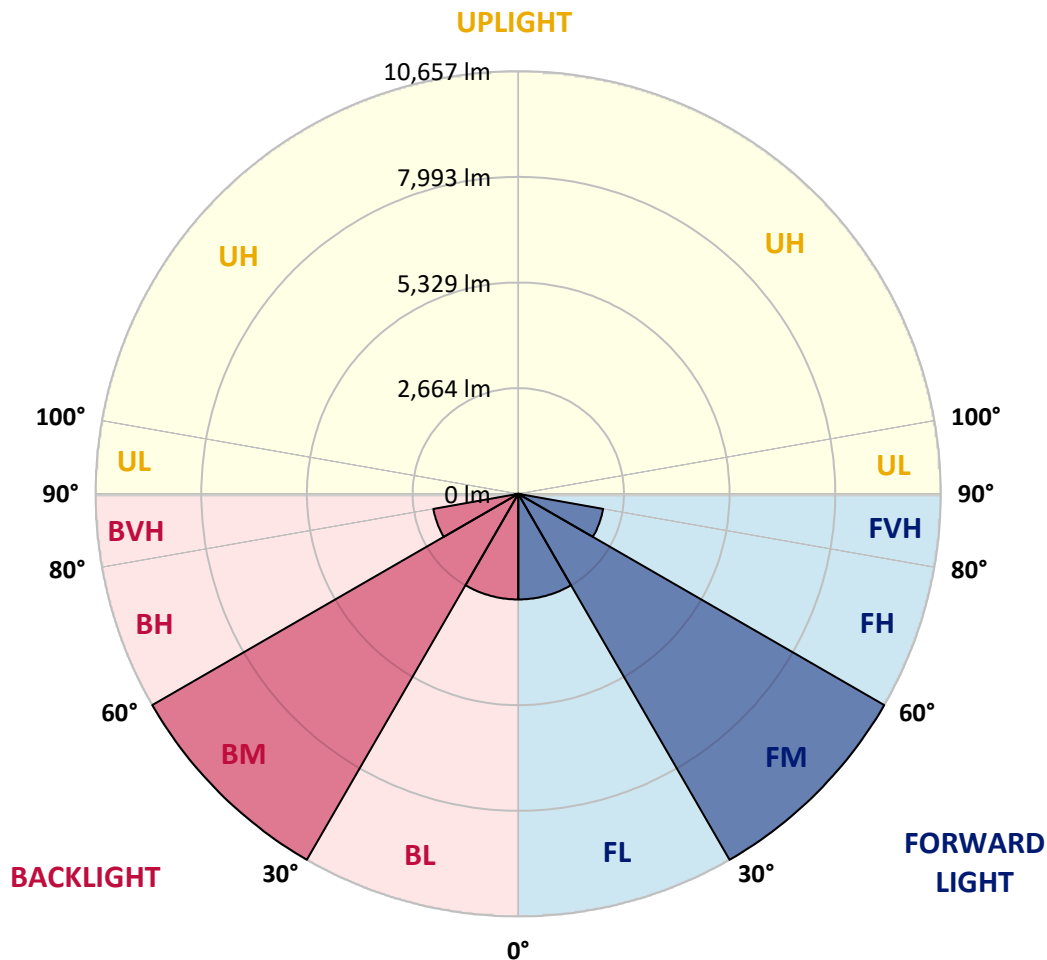
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2663.0	8.6			
FM (30°-60°)	10657.2	34.2			
FH (60°-80°)	2172.6	7.0			G2/5000
FVH (80°-90°)	78.2	0.3			G1/100
BL (0°-30°)	2663.0	8.6	B4/5000		
BM (30°-60°)	10657.2	34.2	B5		
BH (60°-80°)	2172.6	7.0	B3/2500		G2/5000
BVH (80°-90°)	78.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6150.3	6150.3	6150.3	6150.3	6150.3	6150.3	6150.3	6150.3	6150.3	6150.3	6150.3
2.5°	6119.6	6181.0	6154.2	6138.8	6150.3	6131.1	6100.4	6135.0	6127.3	6096.6	6085.1
5°	6104.3	6150.3	6119.6	6150.3	6119.6	6173.3	6158.0	6100.4	6169.5	6104.3	6127.3
7.5°	6092.8	6108.1	6115.8	6100.4	6088.9	6154.2	6119.6	6092.8	6054.4	6042.9	6062.1
10°	6065.9	6104.3	6046.7	6123.5	6138.8	6092.8	6092.8	6042.9	6012.2	5993.0	6058.2
12.5°	6135.0	6069.7	6062.1	6100.4	6111.9	6131.1	6077.4	6050.6	5993.0	6000.7	5989.2
15°	6054.4	6081.3	6085.1	6092.8	6104.3	6150.3	6100.4	6042.9	6019.9	5939.3	5947.0
17.5°	6085.1	6058.2	6085.1	6173.3	6158.0	6192.5	6138.8	6050.6	5996.8	5950.8	6012.2
20°	6138.8	6127.3	6138.8	6246.2	6265.4	6296.1	6250.1	6169.5	6065.9	6012.2	6042.9
22.5°	6196.4	6188.7	6196.4	6299.9	6411.2	6449.6	6403.5	6215.5	6161.8	6062.1	6027.5
25°	6299.9	6307.6	6388.2	6503.3	6576.2	6649.1	6564.7	6430.4	6257.7	6196.4	6123.5
27.5°	6530.2	6549.3	6595.4	6764.2	6890.8	6956.0	6837.1	6652.9	6545.5	6418.9	6399.7
30°	6814.1	6814.1	6894.6	7040.4	7213.1	7312.9	7167.1	6948.4	6817.9	6748.8	6706.6
32.5°	7190.1	7147.9	7178.6	7435.6	7704.2	7788.6	7592.9	7324.4	7117.2	7025.1	6994.4
35°	7512.4	7539.2	7608.3	7884.5	8183.8	8379.5	8072.5	7723.4	7512.4	7428.0	7412.6
37.5°	7930.6	7976.6	8011.1	8391.0	8751.6	8824.5	8529.1	8249.0	7992.0	7922.9	7884.5
40°	8521.4	8490.7	8502.2	8782.3	9108.5	9154.5	8862.9	8663.4	8452.4	8410.2	8410.2
42.5°	9008.7	8974.2	9012.5	9116.1	9365.5	9331.0	9169.8	9024.0	8935.8	8889.8	8935.8
45°	9304.1	9296.5	9365.5	9442.2	9618.7	9503.6	9377.0	9400.0	9315.6	9238.9	9235.1
47.5°	9626.4	9576.5	9660.9	9776.0	9641.8	9588.0	9580.4	9630.3	9603.4	9469.1	9426.9
50°	9783.7	9764.5	9898.8	10033.1	9960.2	9837.4	9864.3	9944.9	9599.6	9419.2	9315.6
52.5°	10205.8	10209.6	10466.7	10539.6	10508.9	10328.5	10386.1	10167.4	9760.7	9507.5	9519.0
55°	10869.5	10842.7	11130.4	11345.3	11379.8	11149.6	10873.4	10566.4	10056.1	9799.1	9722.3
57°	10505.0	10566.4	10884.9	11521.8	11844.1	11571.6	10969.3	10409.1	9730.0	9419.2	9281.1
57.5°	10017.8	10117.5	10670.0	11310.7	11648.4	11625.4	10850.3	10117.5	9511.3	9027.9	9039.4
60°	7339.7	7358.9	7857.7	8874.4	9929.5	9952.5	9008.7	8038.0	7362.7	6837.1	6910.0
62.5°	3871.3	3959.5	4159.0	4976.3	5889.4	6111.9	5540.3	5041.5	4458.3	4059.3	4097.7
65°	2048.8	2037.3	2133.2	2363.4	2812.3	2927.4	2850.7	2455.5	2252.2	2186.9	2190.8
67.5°	1665.2	1684.3	1672.8	1684.3	1715.0	1764.9	1753.4	1768.7	1780.3	1799.4	1795.6
70°	1411.9	1411.9	1419.6	1423.4	1423.4	1446.5	1473.3	1523.2	1527.0	1546.2	1553.9
72.5°	1112.7	1105.0	1116.5	1143.4	1147.2	1166.4	1204.7	1235.4	1246.9	1246.9	1223.9
75°	755.8	763.5	778.9	801.9	824.9	859.4	890.1	909.3	917.0	905.5	894.0
77.5°	425.9	433.6	445.1	479.6	506.5	537.1	571.7	590.9	610.0	613.9	590.9
80°	253.2	253.2	272.4	299.3	330.0	360.7	391.3	414.4	422.0	422.0	410.5
82.5°	153.5	157.3	172.7	199.5	226.4	245.6	272.4	291.6	306.9	303.1	295.4
85°	80.6	80.6	95.9	118.9	138.1	157.3	157.3	145.8	138.1	118.9	111.3
87.5°	26.9	23.0	30.7	30.7	26.9	30.7	30.7	34.5	34.5	34.5	34.5
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)