

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: P451148

Luminaire Tested: **GALN-SA2A-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451148
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-SA2A-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8741 lumens
Efficiency: N/A
Efficacy: 138.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

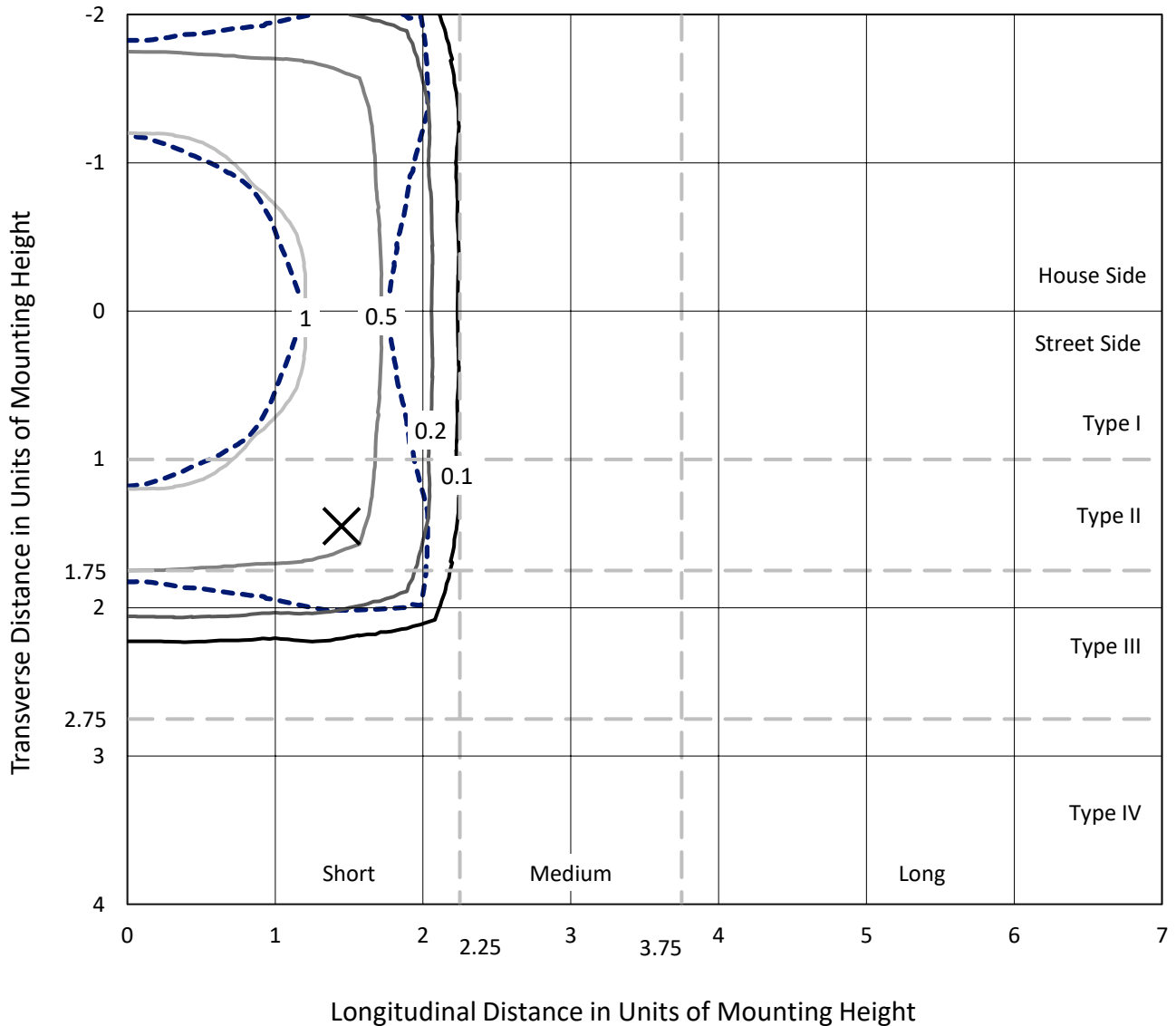
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

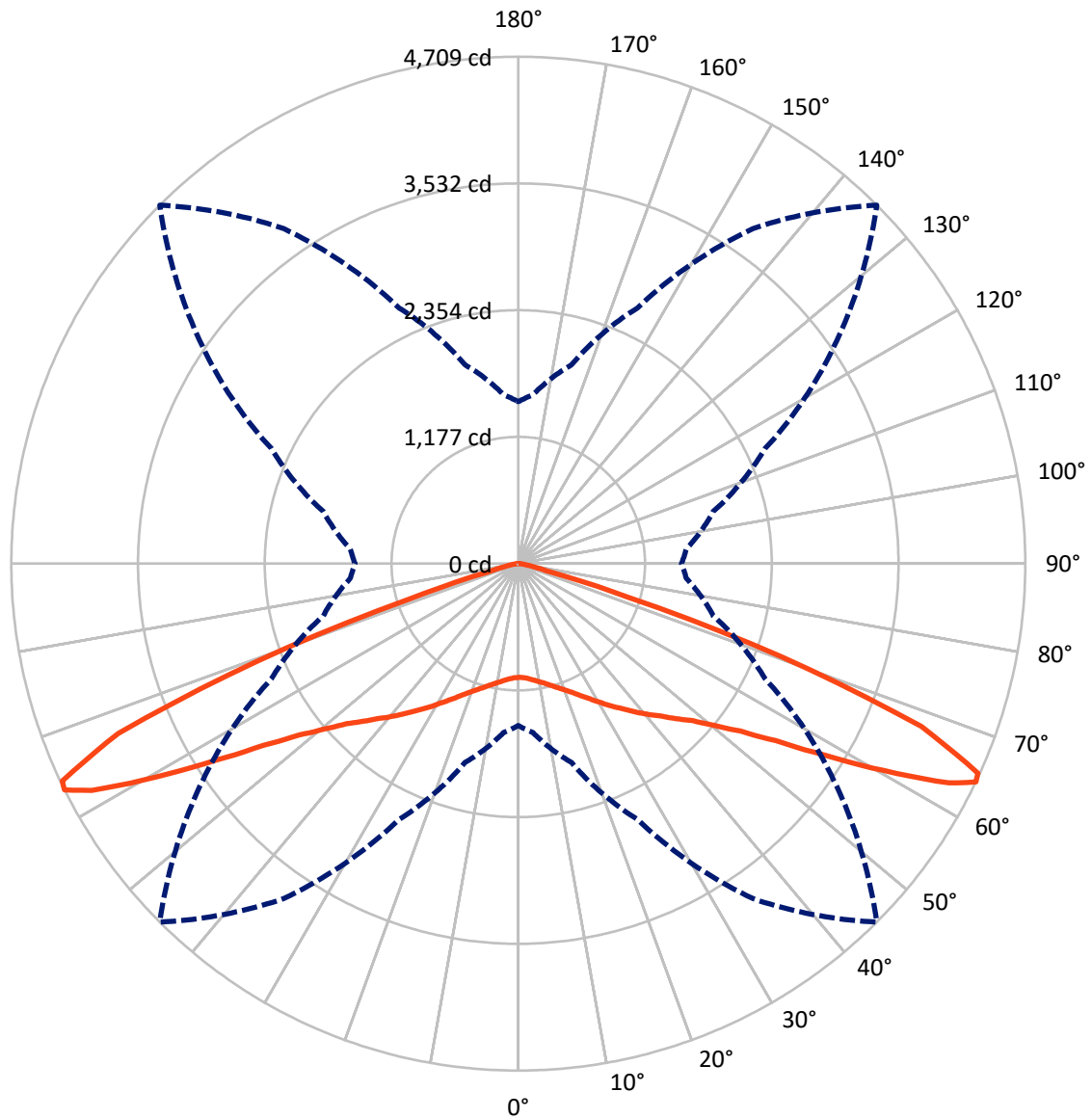
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	4370.5	0.0	4370.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4370.5	0.0	4370.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8741.0	0.0	8741.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	1.2
10°-20°	334.8	3.8
20°-30°	632.7	7.2
30°-40°	1047.8	12.0
40°-50°	1635.8	18.7
50°-60°	2528.9	28.9
60°-70°	2180.6	24.9
70°-80°	247.1	2.8
80°-90°	29.6	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°	8741.0	100.0
0°-180°	8741.0	100.0



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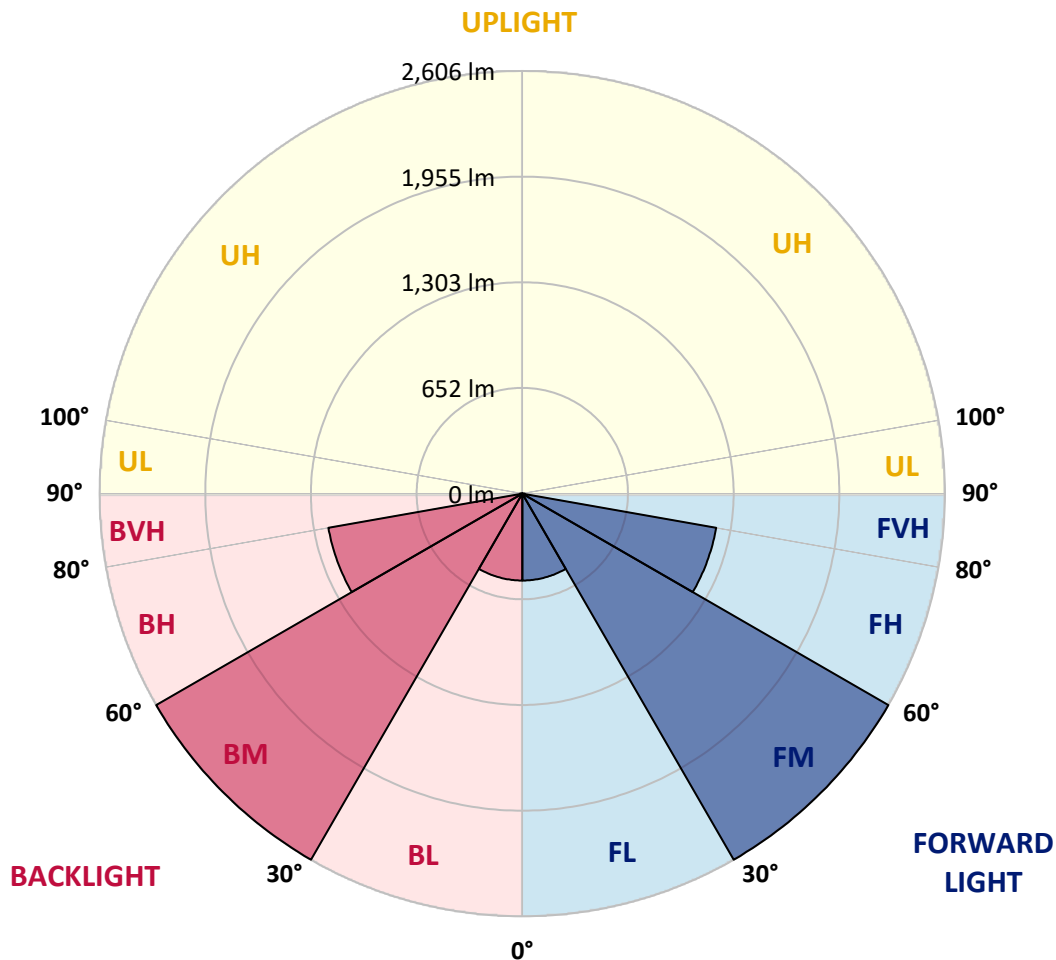
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	535.6	6.1			
FM	(30°-60°)	2606.2	29.8			
FH	(60°-80°)	1213.9	13.9			G1/1800
FVH	(80°-90°)	14.8	0.2			G1/100
BL	(0°-30°)	535.6	6.1	B2/1000		
BM	(30°-60°)	2606.2	29.8	B3/5000		
BH	(60°-80°)	1213.9	13.9	B3/2500		G1/1800
BVH	(80°-90°)	14.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5
2.5°	1060.7	1063.0	1061.1	1060.7	1060.2	1060.2	1060.2	1060.7	1062.5	1063.9	1063.0
5°	1074.1	1075.9	1075.0	1074.6	1074.1	1074.6	1073.6	1073.2	1074.6	1074.6	1074.1
7.5°	1090.8	1093.1	1092.1	1093.1	1093.5	1094.0	1091.7	1089.8	1089.4	1090.8	1089.8
10°	1113.4	1115.3	1115.8	1116.2	1117.1	1116.7	1113.9	1110.7	1110.2	1109.7	1109.3
12.5°	1138.9	1140.3	1140.8	1142.6	1144.0	1144.5	1141.2	1138.4	1133.8	1134.7	1132.9
15°	1167.6	1170.4	1169.9	1172.7	1176.4	1177.3	1174.1	1169.5	1165.3	1163.0	1161.6
17.5°	1202.8	1204.6	1203.7	1206.5	1211.1	1213.4	1210.7	1204.6	1200.5	1195.4	1192.6
20°	1244.5	1247.7	1248.6	1248.6	1252.8	1255.1	1250.9	1249.1	1242.6	1238.9	1236.6
22.5°	1291.7	1293.1	1295.9	1298.6	1302.8	1301.9	1300.5	1297.7	1291.7	1288.4	1284.7
25°	1344.9	1346.3	1353.3	1359.3	1360.7	1359.7	1357.9	1356.5	1350.9	1343.5	1340.8
27.5°	1407.0	1409.7	1419.0	1424.6	1424.6	1425.0	1421.3	1425.9	1413.9	1405.1	1404.2
30°	1484.7	1486.6	1494.5	1500.0	1497.2	1494.9	1494.0	1498.6	1485.7	1469.9	1466.2
32.5°	1561.6	1568.1	1575.0	1587.1	1577.3	1573.2	1572.2	1575.5	1560.7	1543.1	1538.0
35°	1644.0	1648.6	1661.6	1671.8	1663.0	1653.3	1657.4	1667.6	1650.0	1626.4	1625.5
37.5°	1735.2	1739.4	1756.0	1766.7	1760.2	1743.5	1750.5	1762.5	1744.9	1715.8	1709.7
40°	1830.1	1838.9	1859.7	1870.9	1860.2	1838.0	1851.0	1863.9	1848.2	1814.4	1801.0
42.5°	1936.6	1950.5	1980.6	1986.1	1965.8	1935.7	1958.4	1979.2	1968.1	1929.2	1924.1
45°	2061.1	2069.5	2106.5	2118.5	2090.3	2052.8	2081.0	2119.0	2110.7	2065.8	2056.0
47.5°	2200.5	2208.4	2246.8	2264.8	2229.2	2178.7	2229.7	2279.2	2274.1	2226.0	2221.3
50°	2365.3	2367.2	2420.4	2440.8	2405.1	2361.6	2407.0	2468.6	2448.2	2386.6	2385.7
52.5°	2545.9	2548.2	2615.3	2654.7	2634.8	2585.7	2639.4	2676.9	2625.0	2544.5	2538.5
55°	2702.4	2713.9	2805.6	2910.2	2937.5	2901.9	2918.1	2900.5	2772.7	2659.8	2642.2
57.5°	2766.2	2788.9	2928.3	3123.7	3301.4	3354.2	3229.2	3061.6	2831.5	2671.8	2654.7
60°	2610.2	2634.8	2851.0	3221.8	3675.5	3904.7	3553.3	3088.9	2697.7	2473.2	2446.3
62.5°	2090.3	2097.3	2415.3	2990.8	3893.6	4487.1	3689.9	2856.1	2308.4	2003.3	1992.6
64°	1504.2	1575.5	1912.5	2622.3	3798.2	4708.9	3611.2	2529.7	1875.0	1566.2	1516.2
65°	1125.0	1144.5	1541.7	2239.4	3630.1	4692.2	3458.4	2217.6	1552.8	1198.6	1143.1
67.5°	425.0	427.3	569.0	1116.2	2584.3	4037.1	2639.4	1206.5	654.2	473.2	456.0
70°	176.4	179.6	208.8	375.5	1110.7	2592.2	1272.7	435.2	239.4	194.0	191.2
72.5°	129.2	131.0	139.8	166.7	341.7	1064.4	418.5	184.7	140.3	125.5	124.1
75°	101.4	102.3	108.8	122.7	159.3	294.9	174.1	126.9	106.9	96.3	95.4
77.5°	77.3	79.6	84.3	93.5	106.9	139.8	115.3	94.9	82.4	73.6	72.2
80°	53.2	56.0	64.8	68.5	71.8	90.7	78.7	71.8	64.4	53.7	50.5
82.5°	32.9	34.7	43.5	46.8	45.4	50.9	50.5	51.4	45.8	33.3	31.0
85°	17.1	18.1	23.6	24.5	22.7	20.8	25.9	30.1	28.2	19.0	18.5
87.5°	3.7	4.2	5.1	4.6	5.1	5.1	6.5	9.7	10.2	6.5	6.0
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)