

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: P452309

Luminaire Tested: **GALN-SA3B-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452309  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16191 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

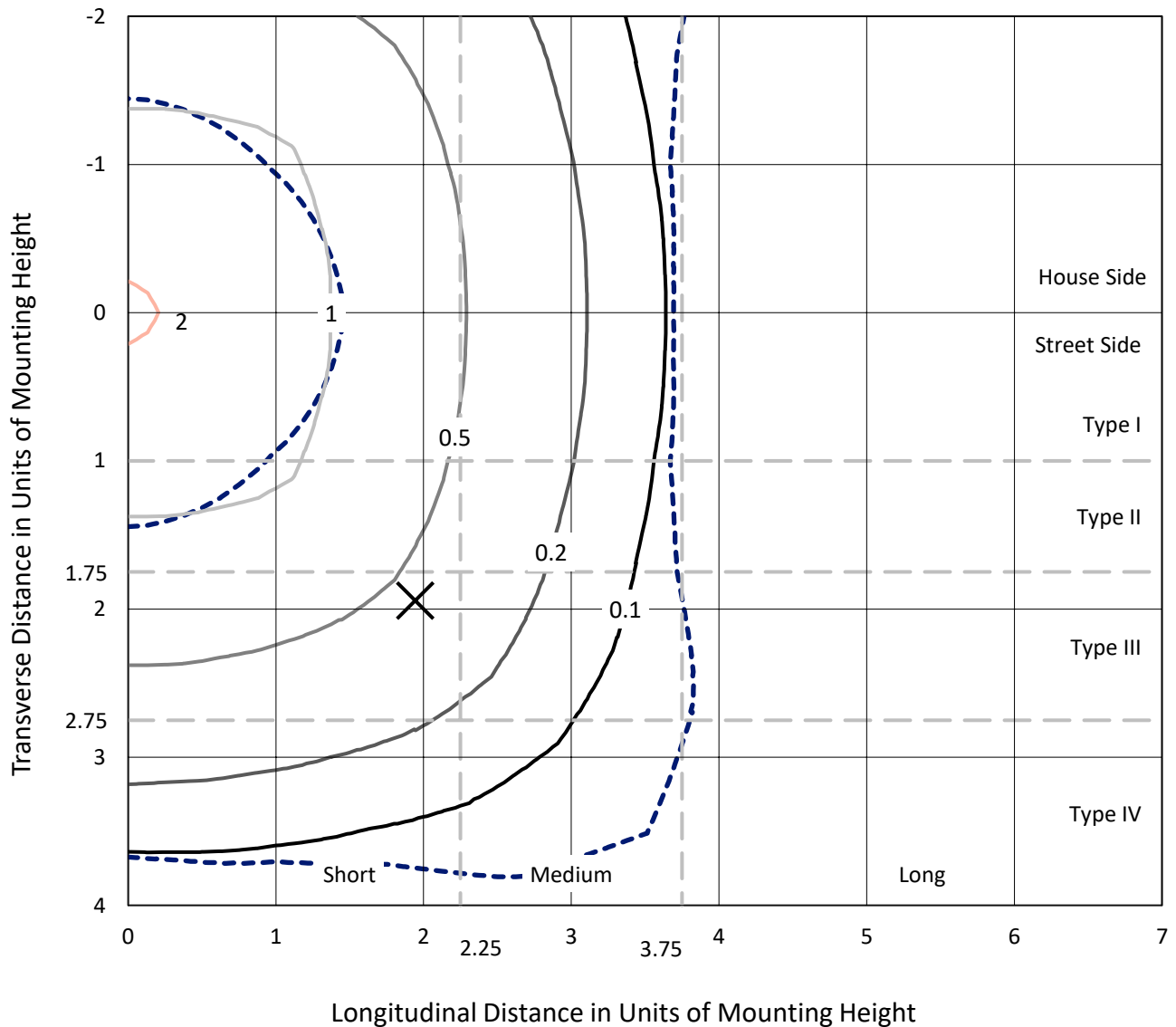
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

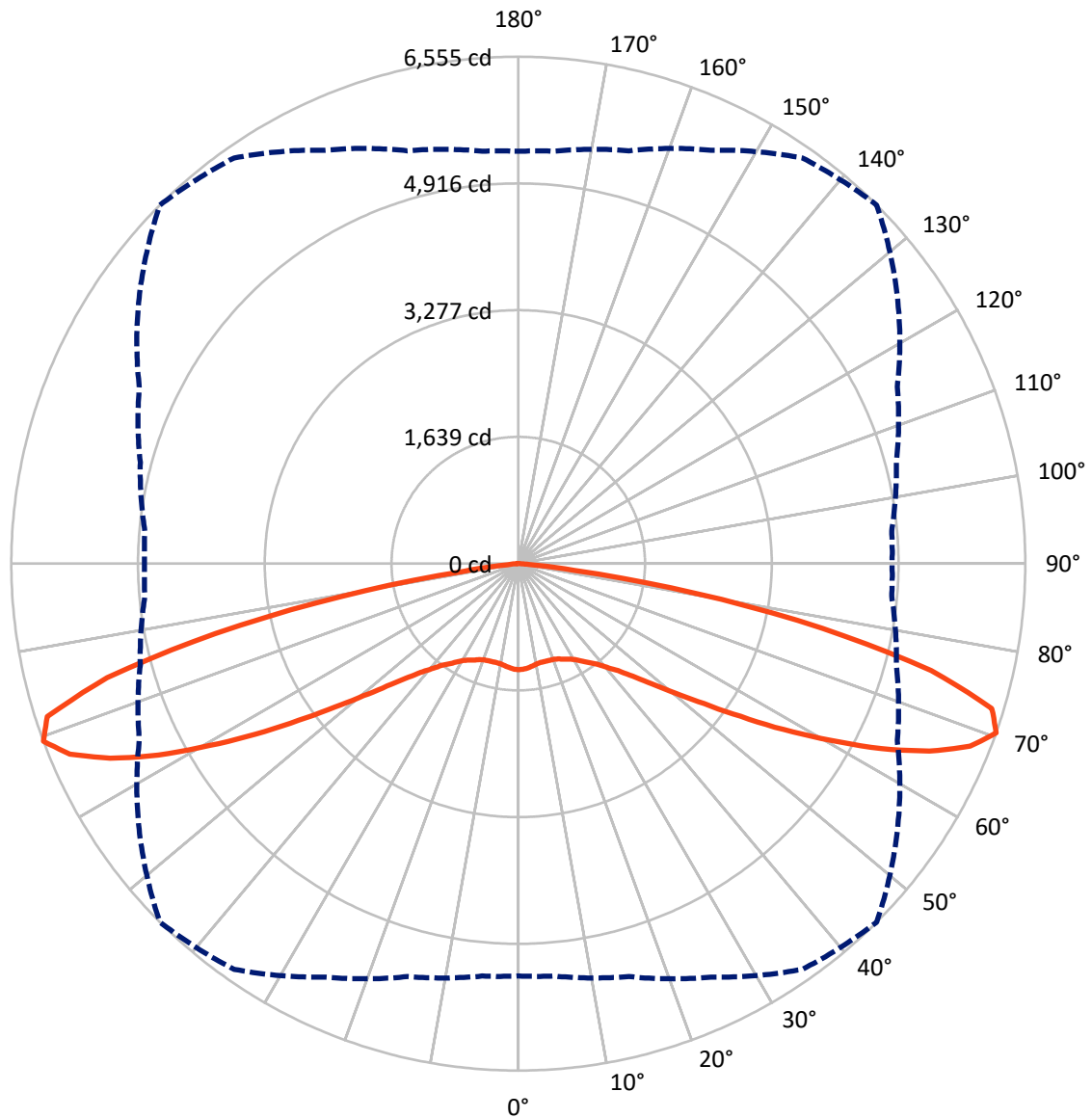
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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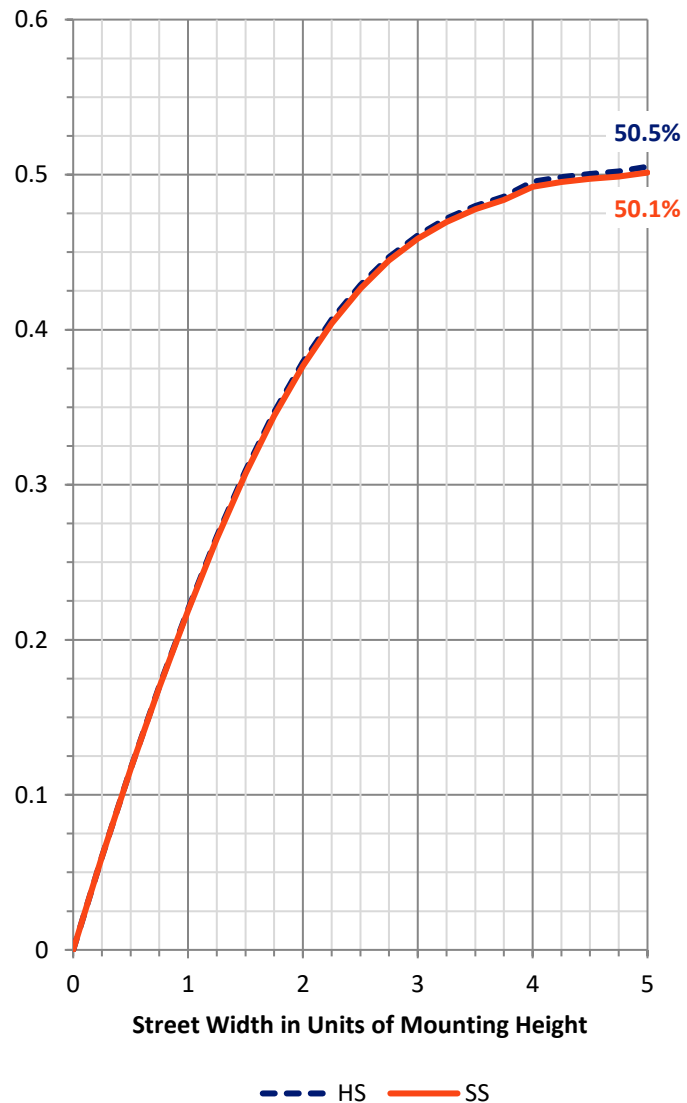
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8095.5	0.0	8095.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8095.5	0.0	8095.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16191.0	0.0	16191.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.2	0.8
10°-20°	375.3	2.3
20°-30°	639.4	3.9
30°-40°	991.1	6.1
40°-50°	1668.1	10.3
50°-60°	3035.1	18.7
60°-70°	5138.3	31.7
70°-80°	3977.2	24.6
80°-90°	238.3	1.5
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°	16191.0	100.0
0°-180°	16191.0	100.0



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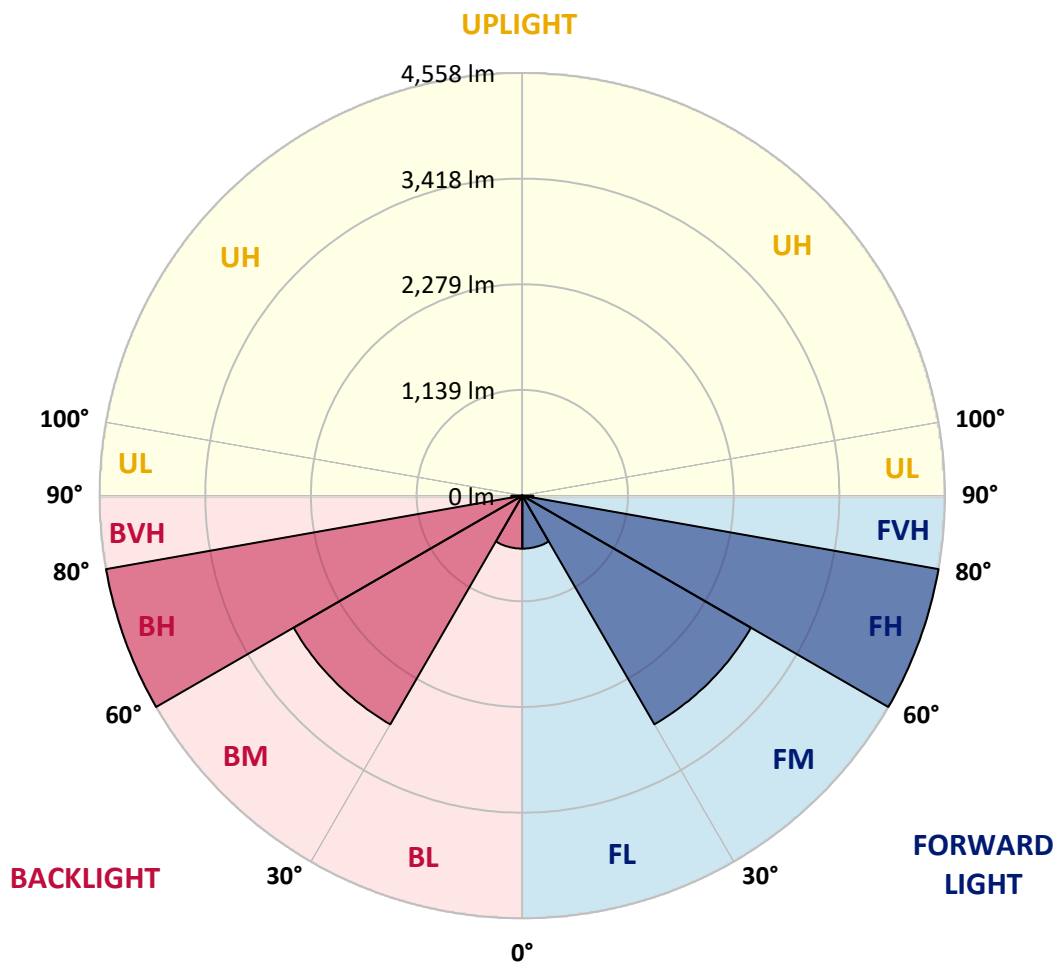
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	571.4	3.5			
FM (30°-60°)	2847.1	17.6			
FH (60°-80°)	4557.8	28.1			G2/5000
FVH (80°-90°)	119.2	0.7			G2/225
BL (0°-30°)	571.4	3.5	B2/1000		
BM (30°-60°)	2847.1	17.6	B3/5000		
BH (60°-80°)	4557.8	28.1	B4/5000		G2/5000
BVH (80°-90°)	119.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8	1370.8
2.5°	1367.3	1368.2	1368.2	1366.5	1365.6	1365.6	1364.8	1364.8	1367.3	1368.2	1369.1
5°	1355.4	1355.4	1355.4	1354.5	1352.8	1352.8	1351.1	1351.1	1352.0	1354.5	1352.8
7.5°	1339.1	1340.8	1340.8	1337.4	1334.9	1334.9	1334.0	1334.9	1335.7	1338.3	1337.4
10°	1334.0	1334.9	1330.6	1324.6	1320.3	1317.7	1318.6	1320.3	1324.6	1326.3	1327.2
12.5°	1337.4	1337.4	1329.7	1321.2	1313.5	1310.1	1309.2	1315.2	1322.9	1328.0	1329.7
15°	1341.7	1340.0	1330.6	1319.5	1311.8	1310.9	1310.1	1314.3	1325.4	1335.7	1336.6
17.5°	1344.3	1343.4	1331.4	1317.7	1313.5	1313.5	1312.6	1316.0	1328.0	1340.8	1341.7
20°	1352.8	1350.2	1336.6	1322.0	1318.6	1320.3	1317.7	1322.0	1334.9	1350.2	1353.7
22.5°	1369.9	1367.3	1353.7	1339.1	1337.4	1337.4	1336.6	1340.8	1354.5	1370.8	1373.3
25°	1390.4	1387.9	1375.0	1364.8	1366.5	1369.9	1368.2	1369.1	1380.2	1393.9	1398.1
27.5°	1417.8	1413.5	1402.4	1393.9	1399.0	1399.0	1399.0	1398.1	1405.0	1417.8	1422.1
30°	1451.1	1449.4	1437.5	1436.6	1440.9	1436.6	1436.6	1437.5	1438.3	1450.3	1454.6
32.5°	1494.8	1491.3	1485.4	1483.6	1495.6	1499.0	1487.1	1475.9	1481.9	1493.9	1496.5
35°	1566.6	1561.5	1552.9	1543.5	1552.9	1569.2	1543.5	1535.0	1550.3	1566.6	1568.3
37.5°	1664.1	1661.5	1647.8	1630.7	1629.9	1647.0	1620.5	1619.6	1648.7	1668.4	1670.9
40°	1786.4	1788.9	1771.8	1755.6	1747.0	1760.7	1740.2	1747.9	1776.1	1798.3	1796.6
42.5°	1958.2	1948.8	1922.3	1906.9	1897.5	1892.4	1887.3	1899.2	1930.9	1954.8	1973.6
45°	2159.2	2155.8	2122.4	2103.6	2083.1	2075.4	2073.7	2095.1	2133.5	2162.6	2165.2
47.5°	2386.7	2379.0	2357.6	2337.9	2330.2	2320.8	2312.3	2328.5	2367.0	2387.5	2393.5
50°	2621.0	2622.7	2622.7	2619.2	2626.9	2628.7	2605.6	2611.6	2632.9	2631.2	2629.5
52.5°	2888.6	2898.0	2942.5	2946.8	2983.5	3008.3	2966.4	2941.6	2933.9	2887.8	2891.2
55°	3203.3	3211.9	3278.6	3345.3	3444.4	3486.3	3398.3	3321.3	3266.6	3196.5	3199.9
57.5°	3595.8	3600.1	3663.4	3791.6	3949.0	4047.3	3892.5	3740.3	3629.2	3562.5	3535.9
60°	4018.2	4022.5	4114.9	4271.4	4515.9	4635.6	4444.1	4195.2	4055.0	3953.2	3960.1
62.5°	4525.3	4542.4	4625.4	4840.9	5137.6	5271.8	5017.9	4685.2	4495.4	4368.8	4374.0
65°	5068.3	5097.4	5188.0	5424.9	5698.6	5843.1	5531.8	5147.9	4911.8	4757.1	4773.3
67.5°	5420.6	5446.3	5577.1	5838.8	6180.0	6299.7	5897.8	5450.6	5155.6	4970.8	4936.6
70°	5330.9	5352.2	5526.7	5897.8	6403.2	6554.5	5985.0	5406.1	5058.9	4846.0	4832.3
72.5°	4705.8	4661.3	4916.1	5448.9	6148.4	6402.3	5710.5	4937.5	4500.5	4281.6	4256.0
75°	3118.6	3215.3	3591.5	4219.2	5201.7	5516.4	4874.2	3964.4	3414.5	3232.4	3204.2
77.5°	1042.4	1116.8	1451.1	2391.8	3546.2	4019.1	3551.3	2592.7	1834.2	1477.7	1484.5
80°	276.2	272.8	353.2	657.6	1532.4	2327.7	1783.8	878.2	480.6	348.0	330.1
82.5°	99.2	111.2	142.8	182.1	406.2	723.4	510.5	246.3	180.4	133.4	129.1
85°	43.6	42.8	61.6	72.7	101.8	135.1	119.7	104.3	91.5	60.7	56.4
87.5°	9.4	9.4	14.5	11.1	18.0	18.0	22.2	26.5	27.4	18.0	14.5
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)