

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: P452077

Luminaire Tested: **GALN-SA3A-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452077
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-SA3A-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13012 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

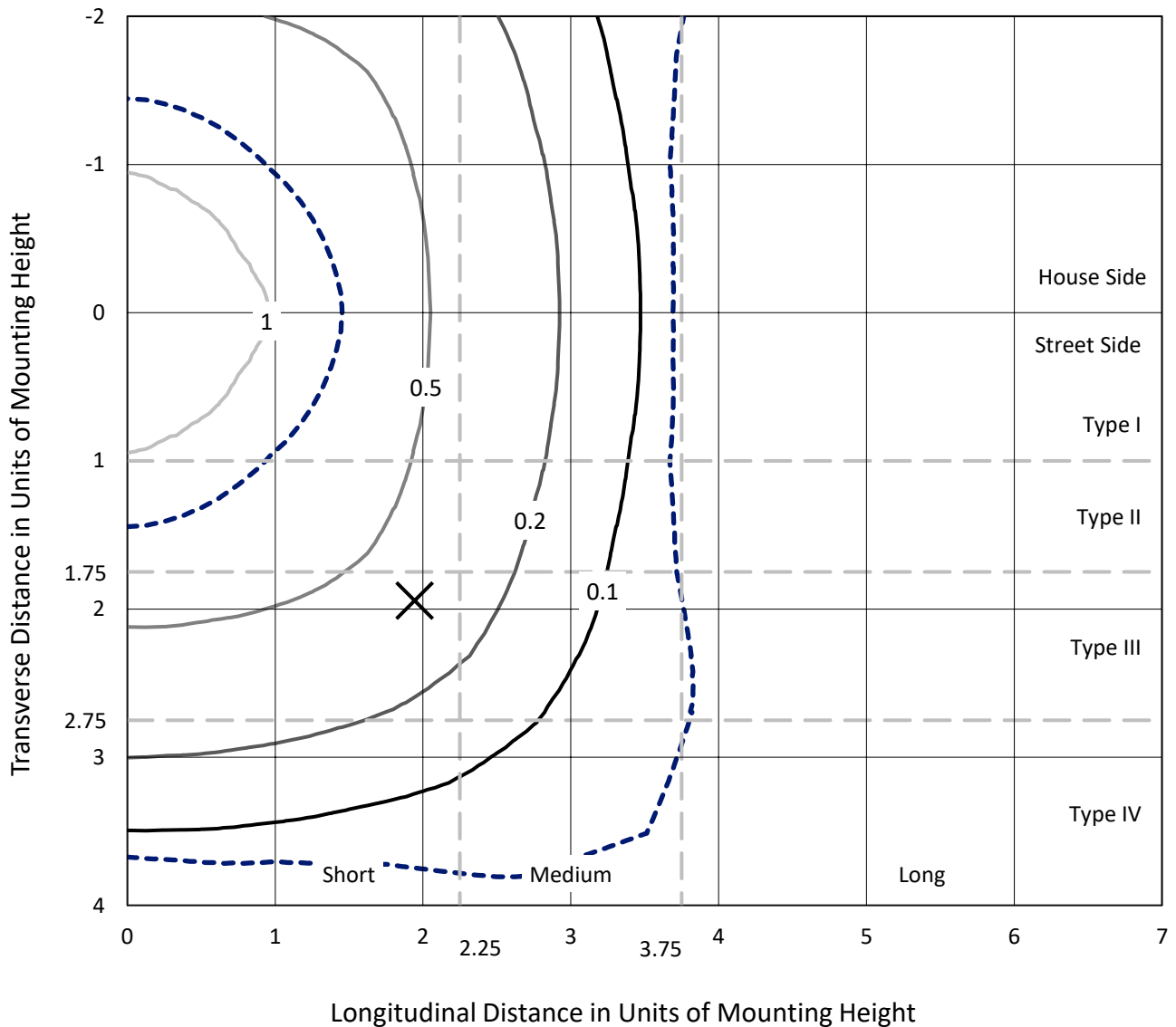
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452077
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Iso-Footcandle Lines of Horizontal Illumination

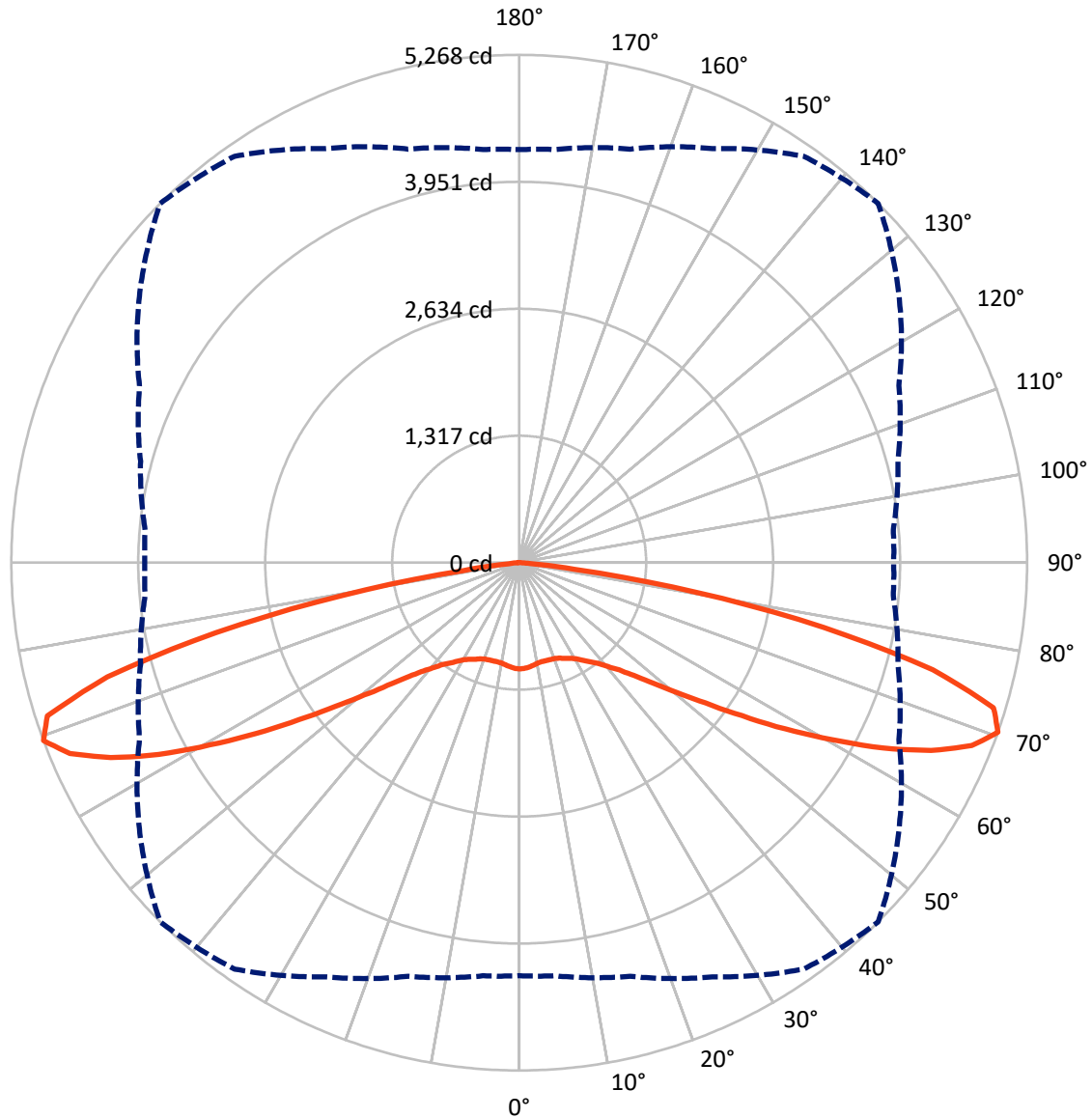
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - N/A

REPORT NUMBER: P452077
CATALOG NUMBER: GALN-SA3A-730-U-5WQ

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
House Side	Lumens	6506.0	0.0	6506.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6506.0	0.0	6506.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13012.0	0.0	13012.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	0.8
10°-20°	301.6	2.3
20°-30°	513.9	3.9
30°-40°	796.5	6.1
40°-50°	1340.6	10.3
50°-60°	2439.2	18.7
60°-70°	4129.4	31.7
70°-80°	3196.3	24.6
80°-90°	191.5	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°	13012.0	100.0
0°-180°	13012.0	100.0



REPORT NUMBER: P452077

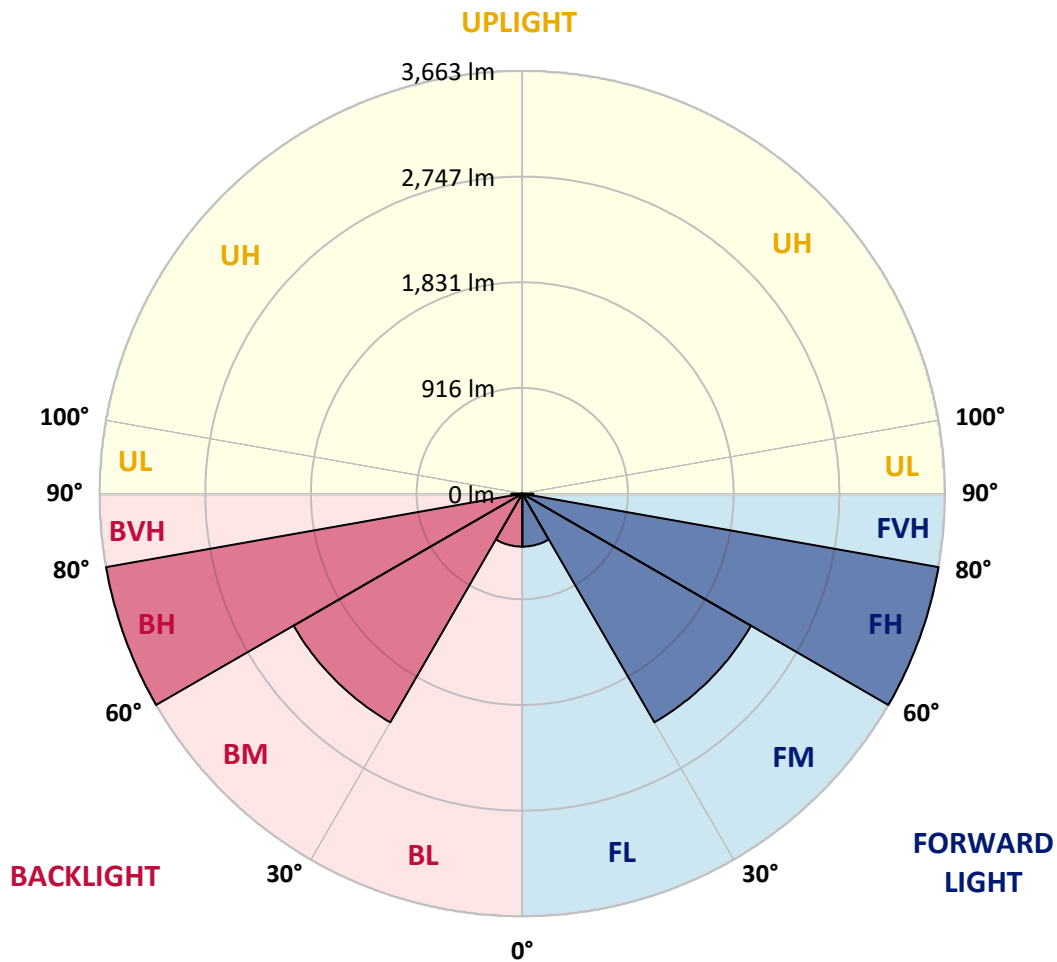
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.2	3.5			
FM (30°-60°)	2288.1	17.6			
FH (60°-80°)	3662.9	28.1			G2/5000
FVH (80°-90°)	95.8	0.7			G1/100
BL (0°-30°)	459.2	3.5	B1/500		
BM (30°-60°)	2288.1	17.6	B2/2500		
BH (60°-80°)	3662.9	28.1	B4/5000		G2/5000
BVH (80°-90°)	95.8	0.7			G1/100
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°	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6
2.5°	1098.9	1099.6	1099.6	1098.2	1097.5	1097.5	1096.8	1096.8	1098.9	1099.6	1100.3
5°	1089.3	1089.3	1089.3	1088.6	1087.2	1087.2	1085.8	1085.8	1086.5	1088.6	1087.2
7.5°	1076.2	1077.6	1077.6	1074.8	1072.8	1072.8	1072.1	1072.8	1073.4	1075.5	1074.8
10°	1072.1	1072.8	1069.3	1064.5	1061.1	1059.0	1059.7	1061.1	1064.5	1065.9	1066.6
12.5°	1074.8	1074.8	1068.6	1061.8	1055.6	1052.8	1052.1	1057.0	1063.1	1067.3	1068.6
15°	1078.3	1076.9	1069.3	1060.4	1054.2	1053.5	1052.8	1056.3	1065.2	1073.4	1074.1
17.5°	1080.3	1079.6	1070.0	1059.0	1055.6	1055.6	1054.9	1057.6	1067.3	1077.6	1078.3
20°	1087.2	1085.1	1074.1	1062.5	1059.7	1061.1	1059.0	1062.5	1072.8	1085.1	1087.9
22.5°	1100.9	1098.9	1087.9	1076.2	1074.8	1074.8	1074.1	1077.6	1088.6	1101.6	1103.7
25°	1117.4	1115.4	1105.1	1096.8	1098.2	1100.9	1099.6	1100.3	1109.2	1120.2	1123.6
27.5°	1139.4	1136.0	1127.1	1120.2	1124.3	1124.3	1124.3	1123.6	1129.1	1139.4	1142.9
30°	1166.2	1164.9	1155.2	1154.5	1158.0	1154.5	1154.5	1155.2	1155.9	1165.5	1169.0
32.5°	1201.3	1198.5	1193.7	1192.3	1202.0	1204.7	1195.1	1186.2	1191.0	1200.6	1202.6
35°	1259.0	1254.9	1248.0	1240.4	1248.0	1261.1	1240.4	1233.6	1245.9	1259.0	1260.4
37.5°	1337.3	1335.3	1324.3	1310.5	1309.9	1323.6	1302.3	1301.6	1325.0	1340.8	1342.8
40°	1435.6	1437.7	1423.9	1410.9	1404.0	1415.0	1398.5	1404.7	1427.4	1445.2	1443.9
42.5°	1573.8	1566.2	1544.9	1532.5	1525.0	1520.8	1516.7	1526.3	1551.8	1571.0	1586.1
45°	1735.2	1732.5	1705.7	1690.6	1674.1	1667.9	1666.5	1683.7	1714.6	1738.0	1740.1
47.5°	1918.1	1911.9	1894.7	1878.9	1872.7	1865.1	1858.3	1871.3	1902.2	1918.7	1923.5
50°	2106.4	2107.7	2107.7	2105.0	2111.2	2112.5	2094.0	2098.8	2116.0	2114.6	2113.2
52.5°	2321.5	2329.0	2364.7	2368.2	2397.7	2417.7	2384.0	2364.1	2357.9	2320.8	2323.5
55°	2574.4	2581.2	2634.8	2688.4	2768.2	2801.8	2731.0	2669.2	2625.2	2568.9	2571.6
57.5°	2889.8	2893.2	2944.1	3047.2	3173.6	3252.6	3128.3	3005.9	2916.6	2863.0	2841.7
60°	3229.3	3232.7	3306.9	3432.7	3629.2	3725.5	3571.5	3371.5	3258.8	3177.1	3182.5
62.5°	3636.8	3650.6	3717.2	3890.4	4128.9	4236.8	4032.6	3765.3	3612.8	3511.0	3515.2
65°	4073.2	4096.6	4169.4	4359.8	4579.7	4695.8	4445.7	4137.1	3947.4	3823.0	3836.1
67.5°	4356.3	4376.9	4482.1	4692.4	4966.6	5062.8	4739.8	4380.4	4143.3	3994.9	3967.4
70°	4284.2	4301.4	4441.5	4739.8	5146.0	5267.6	4809.9	4344.7	4065.6	3894.5	3883.5
72.5°	3781.8	3746.1	3950.9	4379.0	4941.2	5145.3	4589.3	3968.0	3616.9	3440.9	3420.3
75°	2506.3	2584.0	2886.4	3390.8	4180.4	4433.3	3917.2	3186.0	2744.1	2597.7	2575.0
77.5°	837.7	897.5	1166.2	1922.2	2849.9	3230.0	2854.1	2083.7	1474.1	1187.5	1193.0
80°	222.0	219.2	283.8	528.5	1231.5	1870.6	1433.6	705.8	386.2	279.7	265.3
82.5°	79.7	89.3	114.8	146.4	326.4	581.4	410.3	197.9	145.0	107.2	103.8
85°	35.0	34.4	49.5	58.4	81.8	108.6	96.2	83.8	73.5	48.8	45.4
87.5°	7.6	7.6	11.7	8.9	14.4	14.4	17.9	21.3	22.0	14.4	11.7
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)