

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: P452976

Luminaire Tested: **GALN-SA4A-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452976
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-SA4A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 15835 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

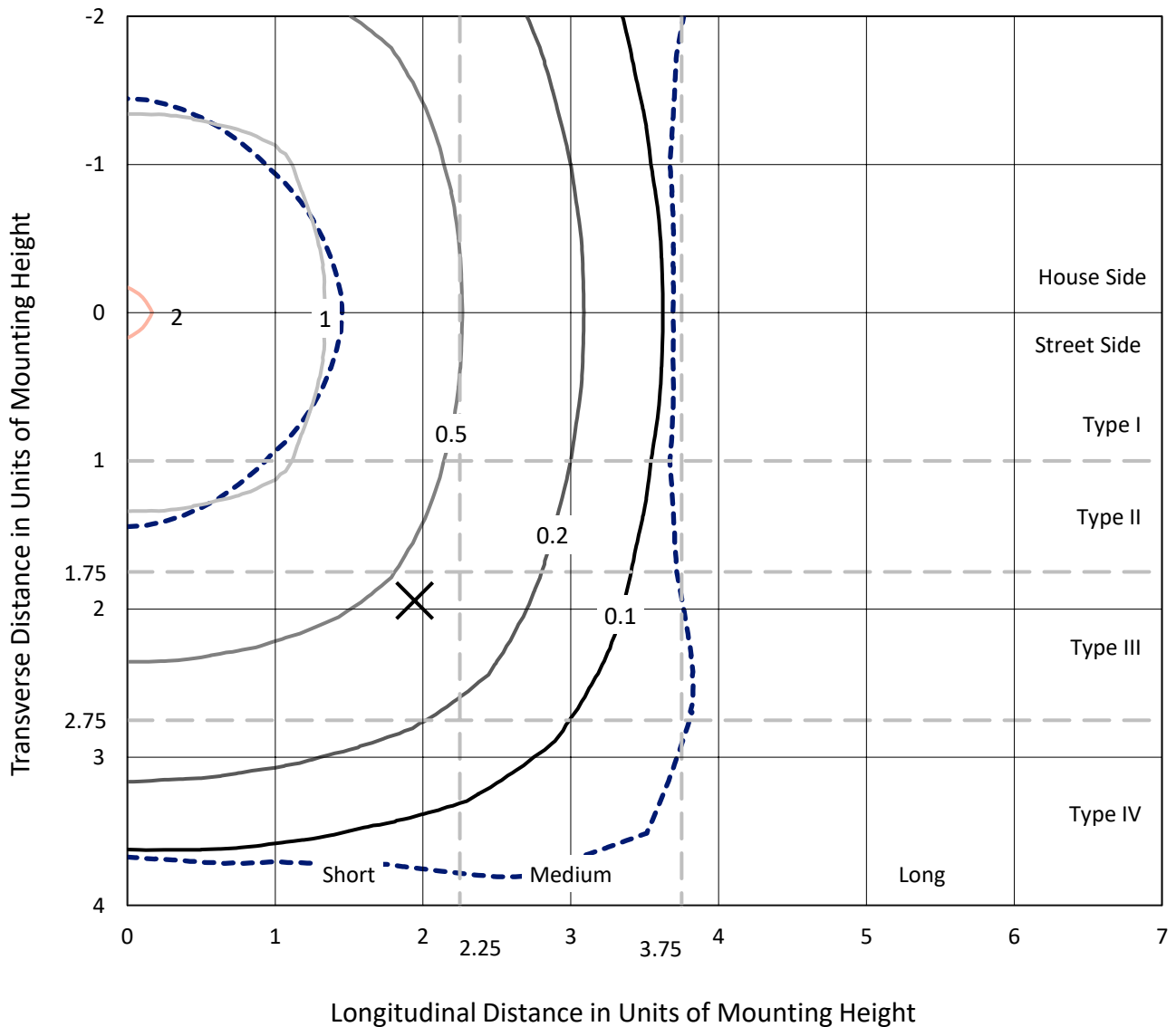
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

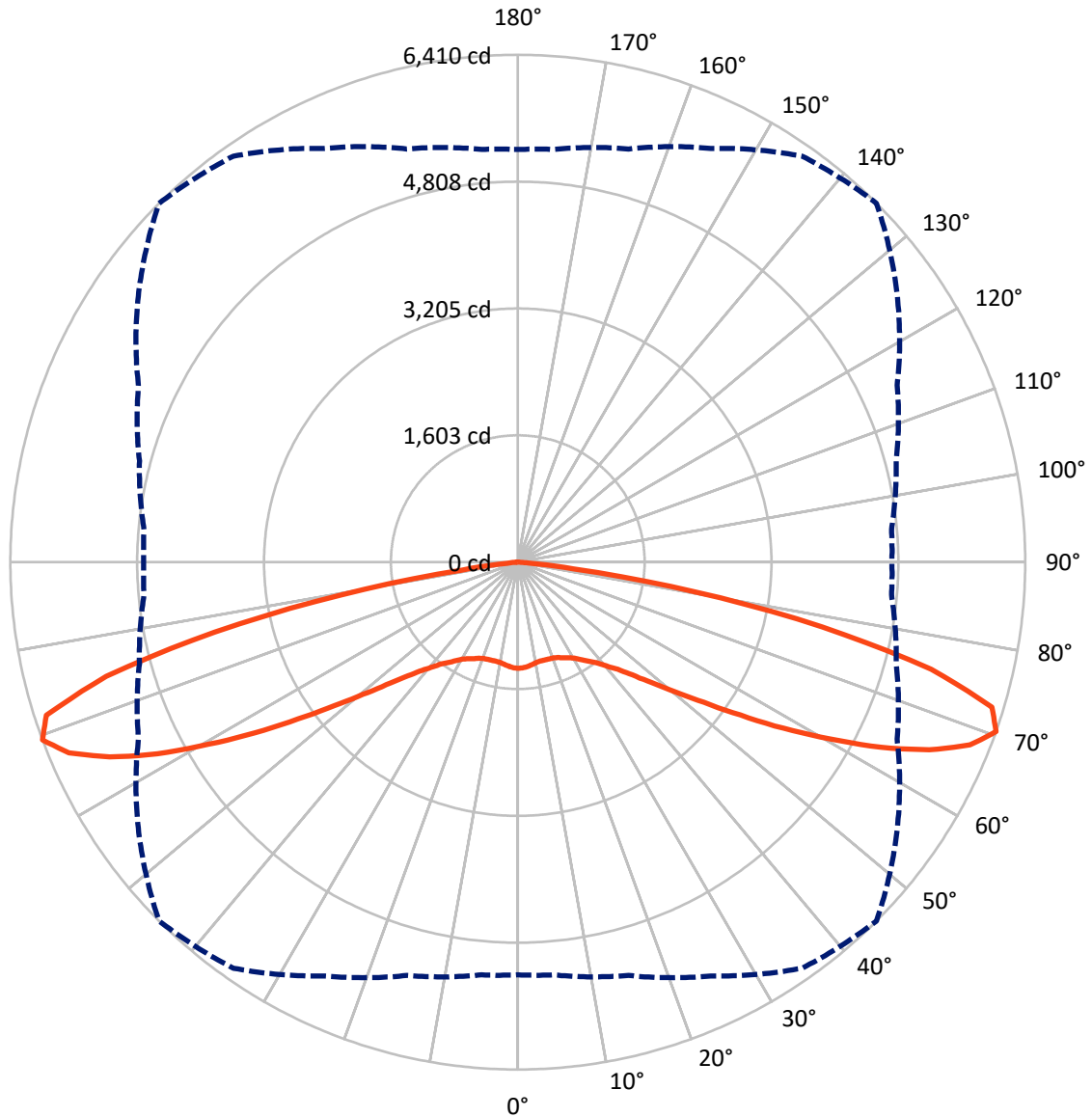
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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
House Side	Lumens	7917.5	0.0	7917.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7917.5	0.0	7917.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15835.0	0.0	15835.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	0.8
10°-20°	367.0	2.3
20°-30°	625.3	3.9
30°-40°	969.3	6.1
40°-50°	1631.4	10.3
50°-60°	2968.3	18.7
60°-70°	5025.3	31.7
70°-80°	3889.8	24.6
80°-90°	233.1	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°	15835.0	100.0
0°-180°	15835.0	100.0



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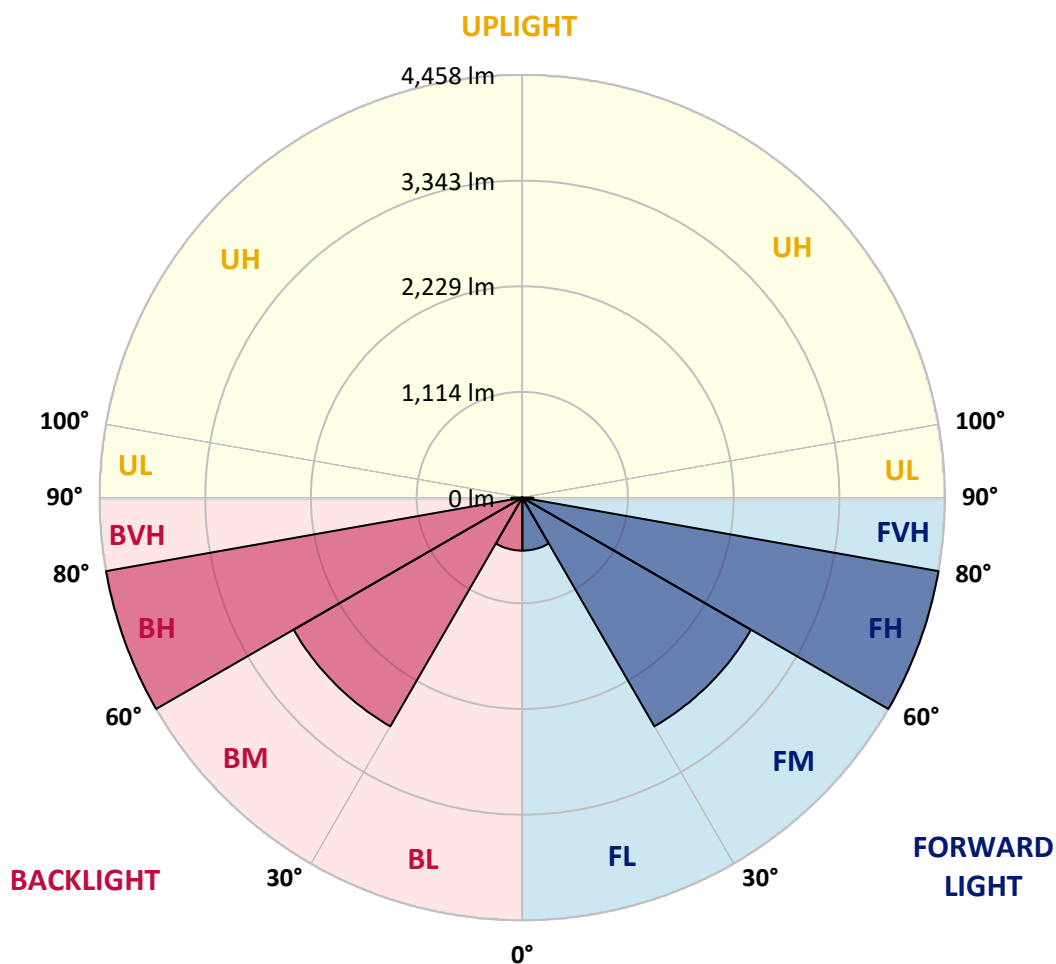
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	558.9	3.5			
FM (30°-60°)	2784.5	17.6			
FH (60°-80°)	4457.5	28.1			G2/5000
FVH (80°-90°)	116.5	0.7			G2/225
BL (0°-30°)	558.9	3.5	B2/1000		
BM (30°-60°)	2784.5	17.6	B3/5000		
BH (60°-80°)	4457.5	28.1	B4/5000		G2/5000
BVH (80°-90°)	116.5	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°	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6	1340.6
2.5°	1337.3	1338.1	1338.1	1336.4	1335.6	1335.6	1334.8	1334.8	1337.3	1338.1	1339.0
5°	1325.6	1325.6	1325.6	1324.7	1323.1	1323.1	1321.4	1321.4	1322.2	1324.7	1323.1
7.5°	1309.7	1311.4	1311.4	1308.0	1305.5	1305.5	1304.7	1305.5	1306.3	1308.8	1308.0
10°	1304.7	1305.5	1301.3	1295.5	1291.3	1288.8	1289.6	1291.3	1295.5	1297.1	1298.0
12.5°	1308.0	1308.0	1300.5	1292.1	1284.6	1281.2	1280.4	1286.3	1293.8	1298.8	1300.5
15°	1312.2	1310.5	1301.3	1290.4	1282.9	1282.1	1281.2	1285.4	1296.3	1306.3	1307.2
17.5°	1314.7	1313.9	1302.2	1288.8	1284.6	1284.6	1283.8	1287.1	1298.8	1311.4	1312.2
20°	1323.1	1320.6	1307.2	1293.0	1289.6	1291.3	1288.8	1293.0	1305.5	1320.6	1323.9
22.5°	1339.8	1337.3	1323.9	1309.7	1308.0	1308.0	1307.2	1311.4	1324.7	1340.6	1343.1
25°	1359.9	1357.4	1344.8	1334.8	1336.4	1339.8	1338.1	1339.0	1349.8	1363.2	1367.4
27.5°	1386.6	1382.4	1371.6	1363.2	1368.2	1368.2	1368.2	1367.4	1374.1	1386.6	1390.8
30°	1419.2	1417.6	1405.9	1405.0	1409.2	1405.0	1405.0	1405.9	1406.7	1418.4	1422.6
32.5°	1461.9	1458.5	1452.7	1451.0	1462.7	1466.1	1454.4	1443.5	1449.3	1461.1	1463.6
35°	1532.1	1527.1	1518.8	1509.6	1518.8	1534.7	1509.6	1501.2	1516.3	1532.1	1533.8
37.5°	1627.5	1625.0	1611.6	1594.9	1594.0	1610.8	1584.8	1584.0	1612.4	1631.7	1634.2
40°	1747.1	1749.6	1732.9	1717.0	1708.6	1722.0	1701.9	1709.4	1737.0	1758.8	1757.1
42.5°	1915.2	1906.0	1880.1	1865.0	1855.8	1850.8	1845.8	1857.5	1888.4	1911.8	1930.2
45°	2111.7	2108.4	2075.8	2057.4	2037.3	2029.8	2028.1	2049.0	2086.6	2115.1	2117.6
47.5°	2334.2	2326.7	2305.7	2286.5	2279.0	2269.8	2261.4	2277.3	2314.9	2335.0	2340.9
50°	2563.3	2565.0	2565.0	2561.7	2569.2	2570.9	2548.3	2554.1	2575.0	2573.4	2571.7
52.5°	2825.1	2834.3	2877.8	2882.0	2917.9	2942.2	2901.2	2877.0	2869.4	2824.3	2827.6
55°	3132.9	3141.2	3206.5	3271.7	3368.7	3409.7	3323.5	3248.3	3194.8	3126.2	3129.5
57.5°	3516.7	3520.9	3582.8	3708.3	3862.1	3958.3	3806.9	3658.1	3549.4	3484.1	3458.2
60°	3929.9	3934.1	4024.4	4177.4	4416.6	4533.7	4346.4	4103.0	3965.8	3866.3	3873.0
62.5°	4425.8	4442.6	4523.7	4734.4	5024.6	5155.9	4907.5	4582.2	4396.6	4272.8	4277.8
65°	4956.9	4985.3	5074.0	5305.6	5573.3	5714.6	5410.2	5034.7	4803.8	4652.5	4668.4
67.5°	5301.5	5326.5	5454.5	5710.4	6044.1	6161.2	5768.1	5330.7	5042.2	4861.5	4828.1
70°	5213.6	5234.5	5405.2	5768.1	6262.4	6410.4	5853.4	5287.2	4947.7	4739.4	4726.1
72.5°	4602.3	4558.8	4808.0	5329.1	6013.2	6261.6	5585.0	4828.9	4401.6	4187.5	4162.4
75°	3050.1	3144.6	3512.6	4126.4	5087.4	5395.1	4767.0	3877.2	3339.4	3161.3	3133.7
77.5°	1019.5	1092.2	1419.2	2339.2	3468.2	3930.7	3473.3	2535.7	1793.9	1445.2	1451.9
80°	270.1	266.8	345.4	643.1	1498.7	2276.5	1744.6	858.9	470.0	340.4	322.8
82.5°	97.0	108.7	139.7	178.1	397.3	707.5	499.3	240.9	176.5	130.5	126.3
85°	42.7	41.8	60.2	71.1	99.5	132.1	117.1	102.0	89.5	59.4	55.2
87.5°	9.2	9.2	14.2	10.9	17.6	17.6	21.7	25.9	26.8	17.6	14.2
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)