

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: P452075

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
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-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13040 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

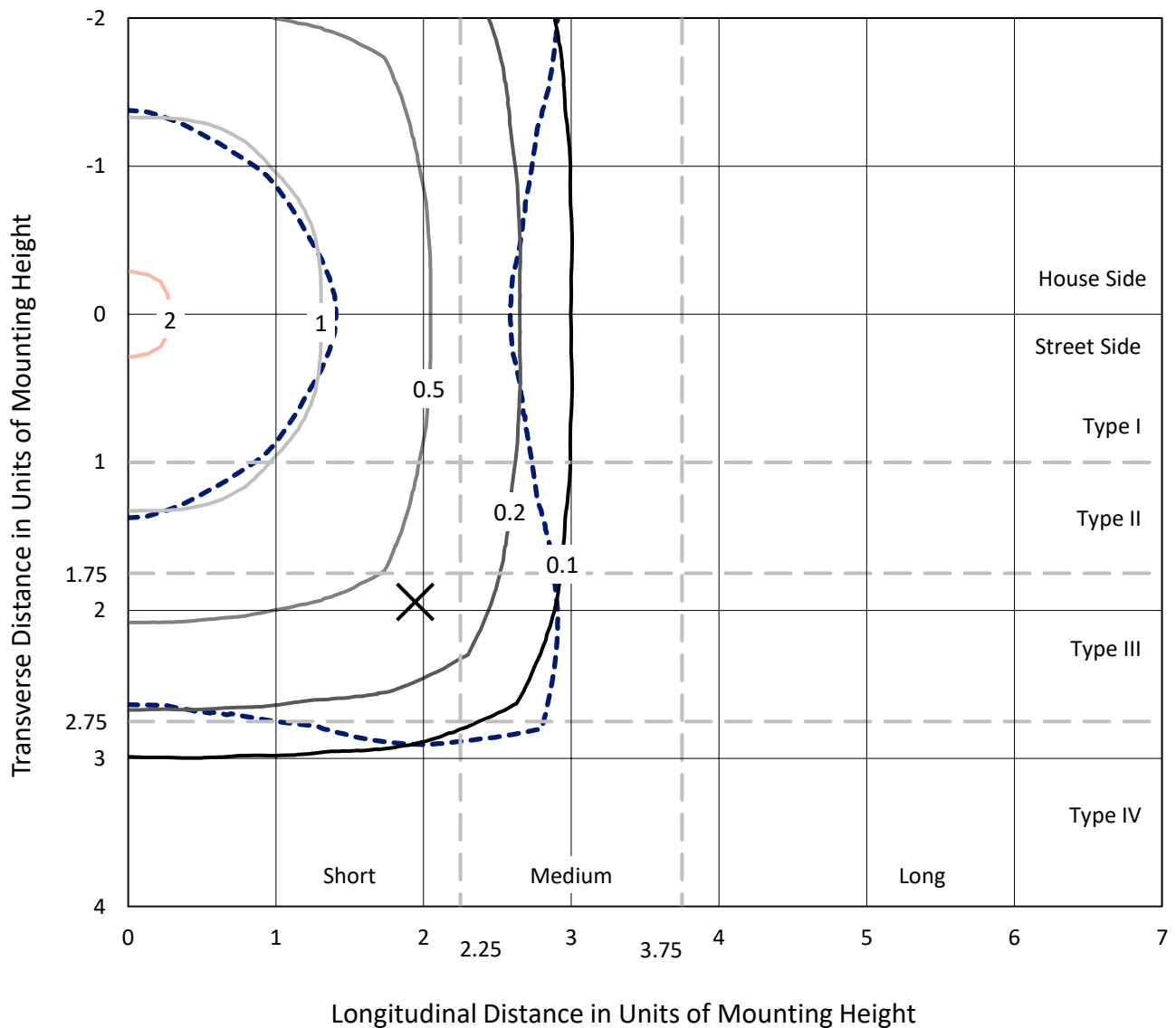
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

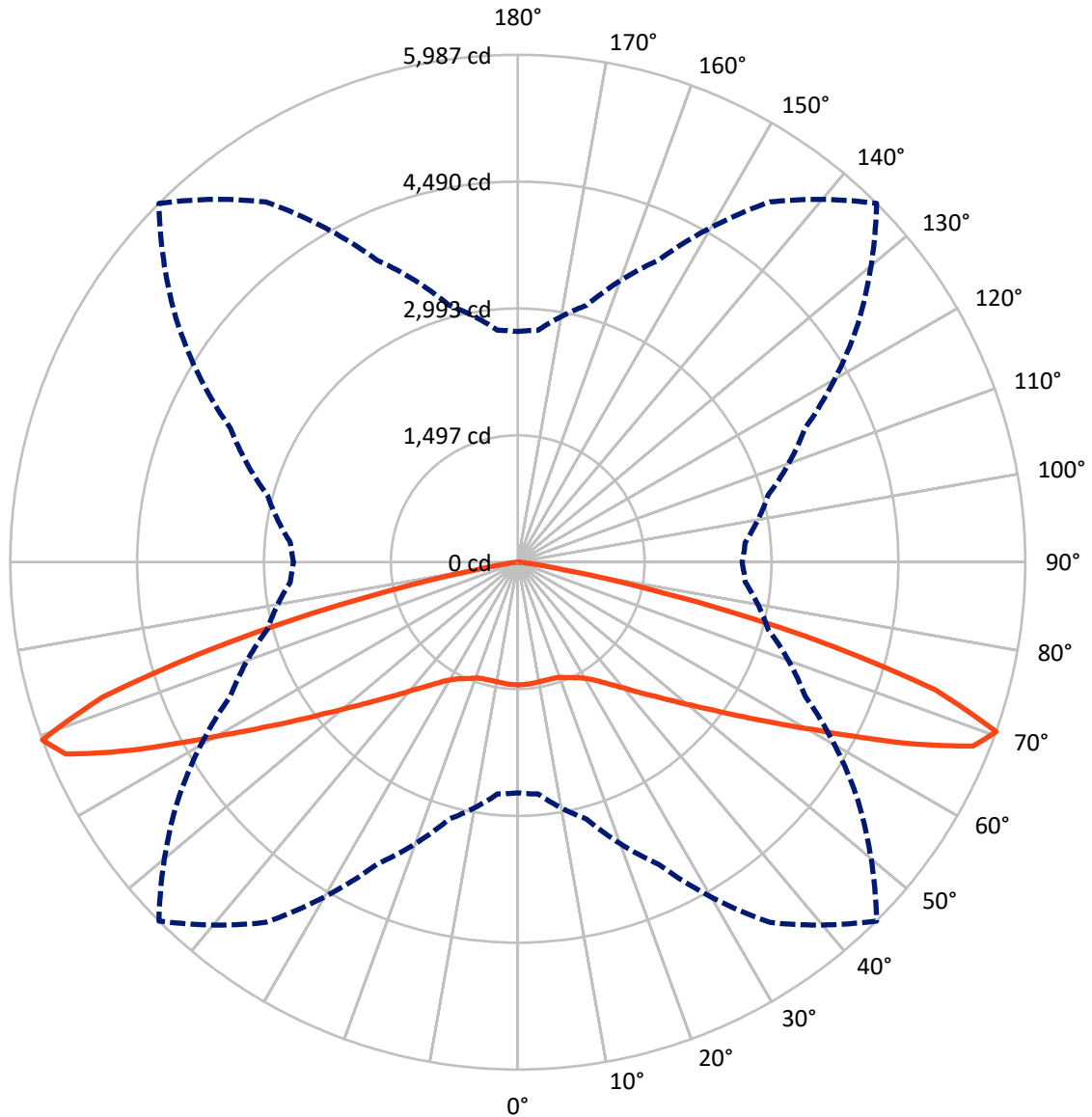
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	6520.0	0.0	6520.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6520.0	0.0	6520.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13040.0	0.0	13040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	1.1
10°-20°	402.9	3.1
20°-30°	689.2	5.3
30°-40°	1093.8	8.4
40°-50°	1764.6	13.5
50°-60°	2871.1	22.0
60°-70°	4162.1	31.9
70°-80°	1846.1	14.2
80°-90°	72.8	0.6
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°	13040.0	100.0
0°-180°	13040.0	100.0

Coefficient of Utilization



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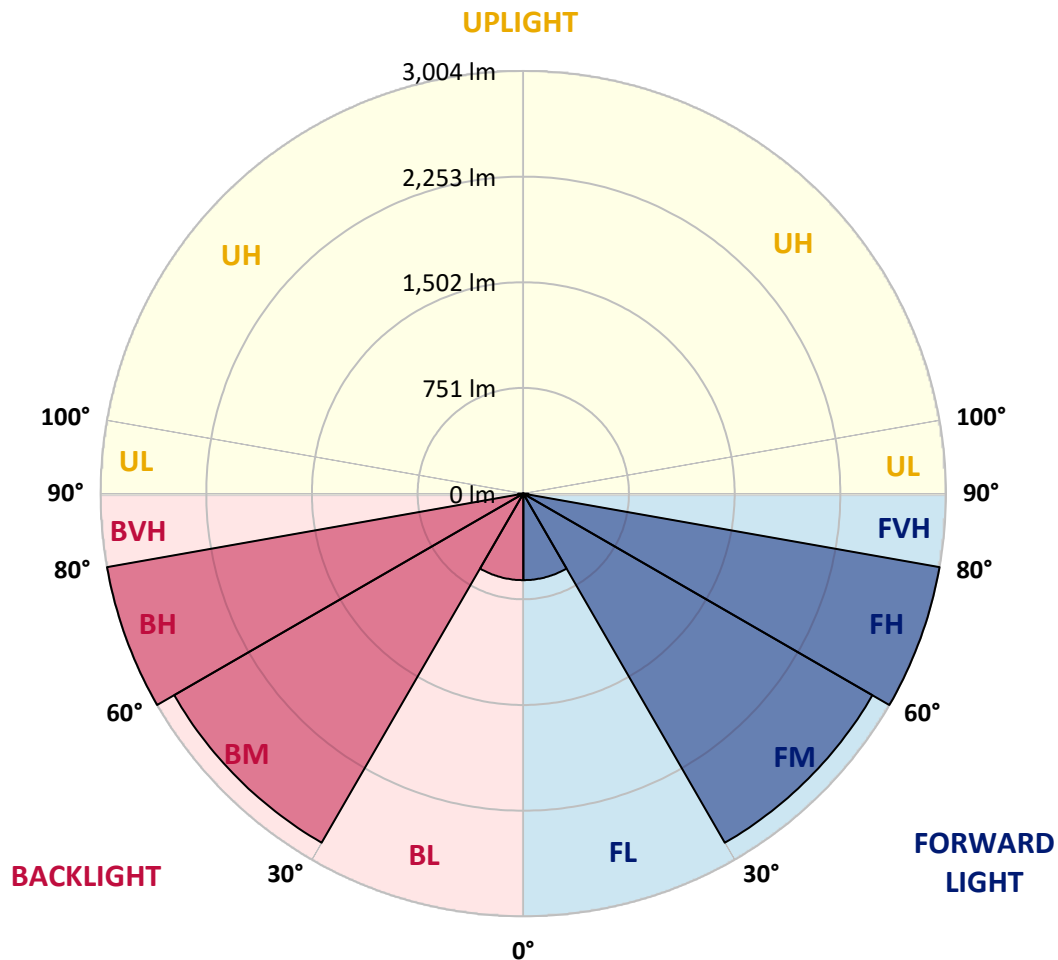
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.7	4.7			
FM (30°-60°)	2864.8	22.0			
FH (60°-80°)	3004.1	23.0			G2/5000
FVH (80°-90°)	36.4	0.3			G1/100
BL (0°-30°)	614.7	4.7	B2/1000		
BM (30°-60°)	2864.8	22.0	B3/5000		
BH (60°-80°)	3004.1	23.0	B4/5000		G2/5000
BVH (80°-90°)	36.4	0.3			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°	1448.0	1448.0	1448.0	1448.0	1448.0	1448.0	1448.0	1448.0	1448.0	1448.0	1448.0
2.5°	1448.0	1449.4	1447.3	1446.0	1445.3	1445.3	1444.6	1445.3	1449.4	1450.1	1448.0
5°	1443.9	1445.3	1444.6	1443.2	1442.5	1442.5	1441.8	1441.2	1444.6	1446.0	1445.3
7.5°	1438.4	1439.1	1438.4	1437.7	1438.4	1437.7	1435.7	1434.3	1437.0	1437.0	1436.3
10°	1428.8	1430.2	1429.5	1430.2	1431.5	1431.5	1428.8	1426.0	1426.7	1425.4	1425.4
12.5°	1417.1	1419.2	1419.9	1422.6	1426.0	1430.2	1424.0	1417.8	1416.4	1415.7	1415.0
15°	1409.5	1411.6	1414.4	1417.1	1423.3	1432.2	1423.3	1413.7	1410.9	1408.2	1406.8
17.5°	1407.5	1410.2	1414.4	1418.5	1426.7	1435.7	1428.1	1418.5	1411.6	1407.5	1406.1
20°	1413.0	1415.0	1421.2	1428.8	1440.5	1449.4	1441.8	1431.5	1421.2	1415.0	1413.0
22.5°	1424.0	1427.4	1435.0	1448.7	1465.2	1478.3	1468.0	1450.8	1434.3	1426.0	1423.3
25°	1448.0	1450.8	1459.7	1478.3	1497.5	1509.9	1498.9	1479.0	1456.3	1445.3	1441.8
27.5°	1484.5	1488.6	1498.2	1520.2	1536.0	1542.9	1535.3	1521.6	1505.1	1493.4	1490.6
30°	1536.0	1540.8	1555.2	1578.6	1588.9	1593.0	1589.6	1580.7	1569.0	1556.6	1553.9
32.5°	1605.4	1608.2	1624.7	1646.6	1656.3	1657.6	1653.5	1649.4	1630.2	1609.5	1608.2
35°	1683.1	1687.9	1707.8	1733.9	1742.9	1743.5	1735.3	1729.1	1706.4	1689.9	1689.9
37.5°	1786.2	1788.2	1807.5	1837.0	1846.6	1843.9	1839.8	1834.3	1810.2	1788.9	1789.6
40°	1907.1	1911.2	1927.7	1962.1	1962.1	1958.7	1961.4	1957.3	1933.2	1912.6	1913.3
42.5°	2050.7	2052.8	2072.7	2109.2	2106.4	2099.5	2102.3	2096.8	2081.7	2058.3	2050.1
45°	2204.0	2212.2	2246.6	2281.7	2276.2	2254.2	2265.2	2263.8	2250.0	2215.0	2217.1
47.5°	2388.9	2402.6	2435.6	2477.5	2471.3	2437.0	2449.4	2457.6	2438.4	2399.9	2393.0
50°	2597.1	2606.0	2654.8	2694.0	2688.5	2652.1	2680.3	2681.6	2633.5	2579.2	2579.2
52.5°	2819.1	2828.0	2894.0	2955.2	2958.6	2905.7	2928.4	2927.0	2848.6	2777.2	2763.4
55°	3067.9	3072.0	3157.2	3247.2	3266.5	3214.9	3217.7	3190.2	3088.5	3005.3	2997.8
57.5°	3324.9	3340.0	3434.2	3551.0	3608.0	3576.4	3562.0	3488.5	3390.2	3294.7	3289.9
60°	3609.4	3610.1	3732.4	3870.6	3986.0	4007.3	3948.2	3850.0	3722.8	3596.4	3590.9
62.5°	3806.7	3836.2	3990.8	4224.5	4431.4	4551.0	4394.9	4188.8	3938.6	3734.5	3713.9
65°	3847.2	3867.1	4102.9	4498.7	4921.4	5179.1	4818.3	4379.8	3953.0	3680.9	3667.2
67.5°	3519.4	3540.7	3858.2	4465.7	5265.0	5793.5	5093.2	4287.7	3708.4	3371.6	3344.8
70°	2722.2	2746.2	3138.7	3931.1	5188.7	5986.6	4897.3	3740.0	3058.3	2694.7	2645.9
72.5°	1447.3	1536.0	1871.4	2698.1	4211.5	5154.4	4015.6	2729.1	1972.4	1612.3	1547.7
75°	528.5	539.5	726.4	1196.5	2450.0	3534.5	2544.2	1301.6	748.4	578.0	548.4
77.5°	218.5	217.9	239.2	361.5	890.0	1810.2	993.1	382.1	238.5	220.6	217.9
80°	129.2	129.2	142.3	150.5	234.4	546.4	261.8	170.4	142.9	130.6	132.6
82.5°	57.7	61.2	90.0	94.8	113.4	149.8	126.5	108.6	93.5	64.6	58.4
85°	31.6	27.5	47.4	49.5	54.3	55.7	59.8	59.1	54.3	31.6	32.3
87.5°	6.2	7.6	13.7	10.3	11.7	10.3	13.7	19.2	19.9	11.0	8.9
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)