

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: P452047

Luminaire Tested: **GALN-SA3A-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452047
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-SA3A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 11915 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

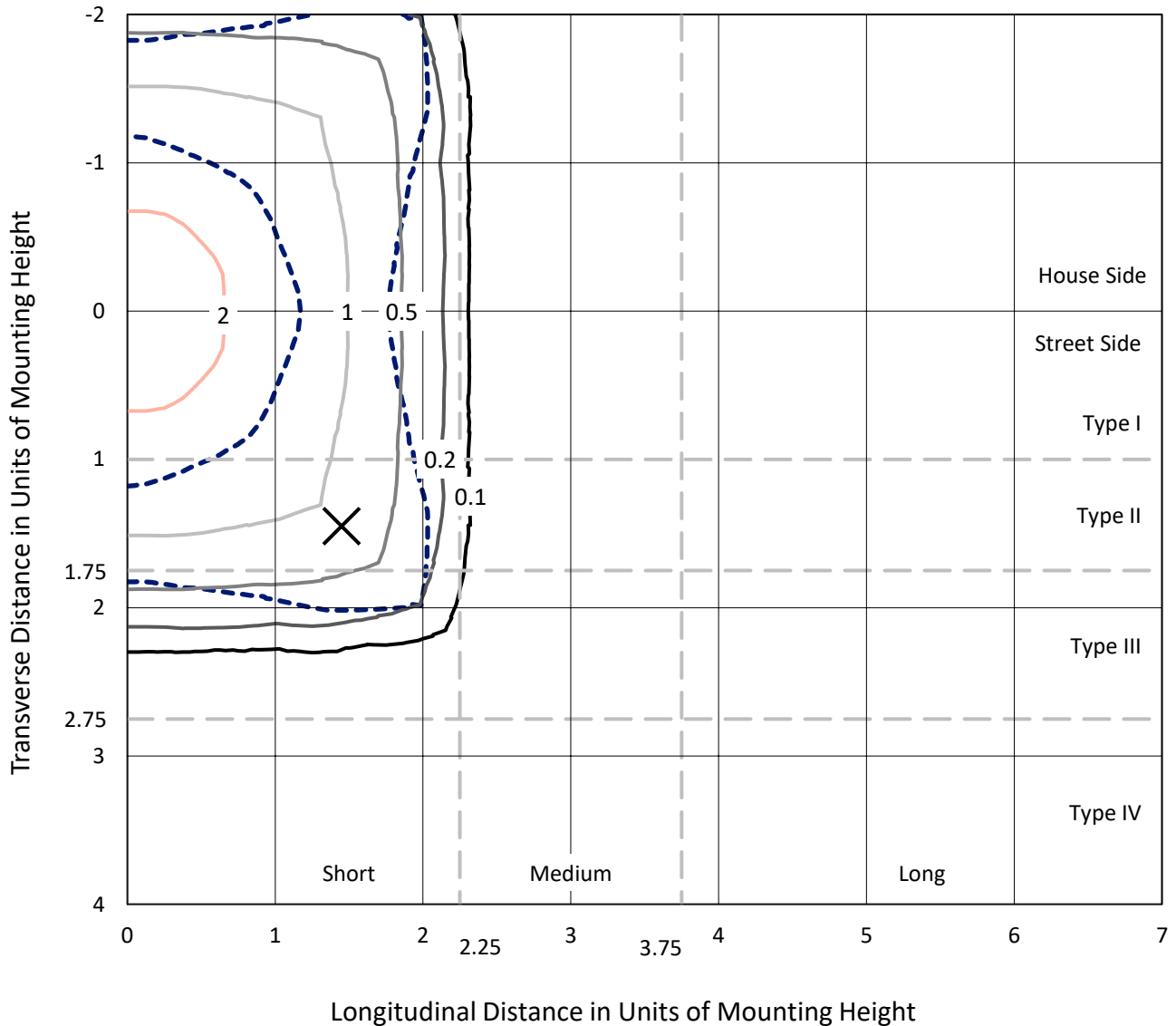
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

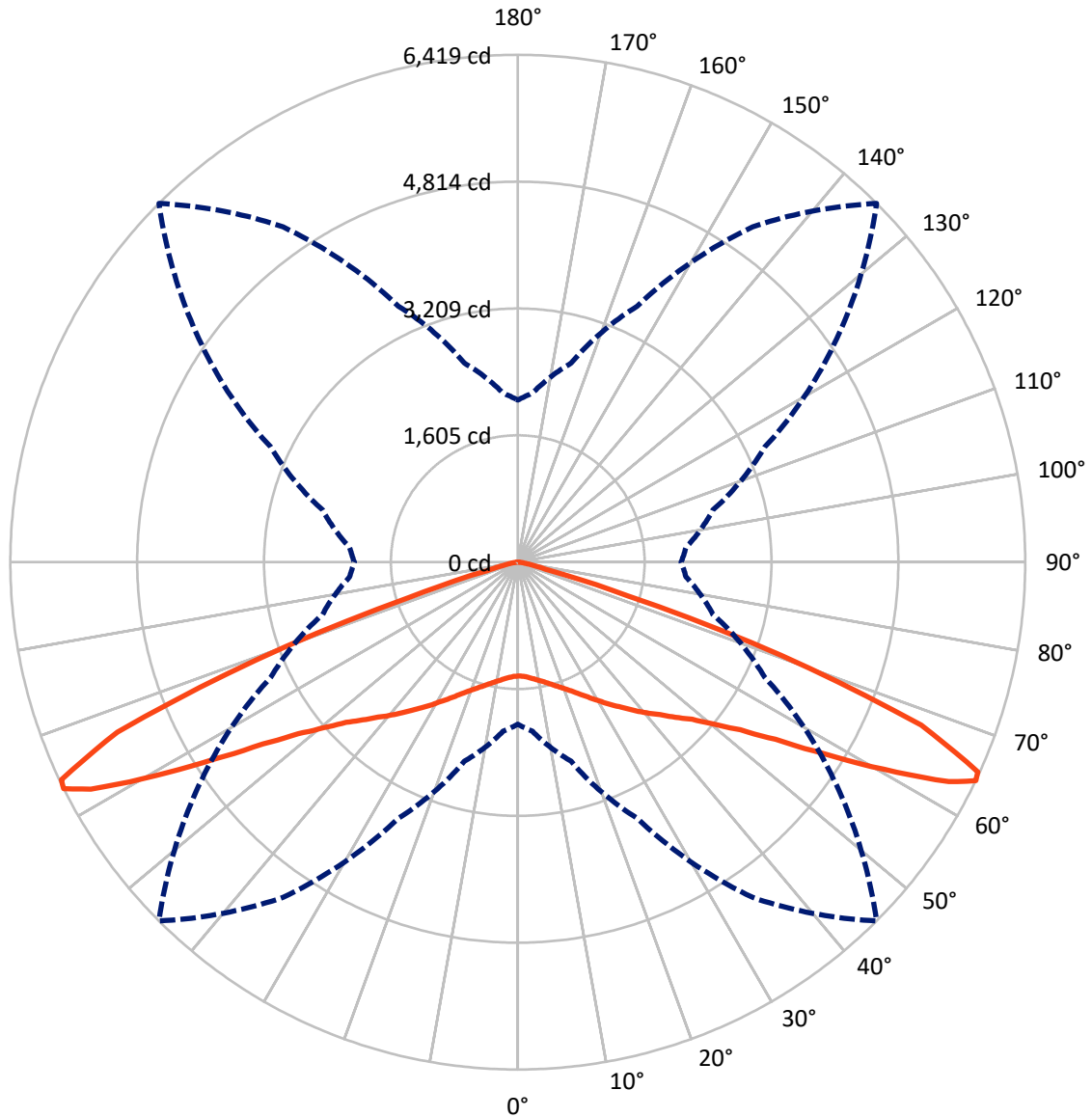
× Max cd
 - - - 1/2 Max cd



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 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5957.5	0.0	5957.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5957.5	0.0	5957.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11915.0	0.0	11915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	1.2
10°-20°	456.4	3.8
20°-30°	862.4	7.2
30°-40°	1428.3	12.0
40°-50°	2229.7	18.7
50°-60°	3447.1	28.9
60°-70°	2972.4	24.9
70°-80°	336.9	2.8
80°-90°	40.3	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°	11915.0	100.0
0°-180°	11915.0	100.0

Coefficient of Utilization



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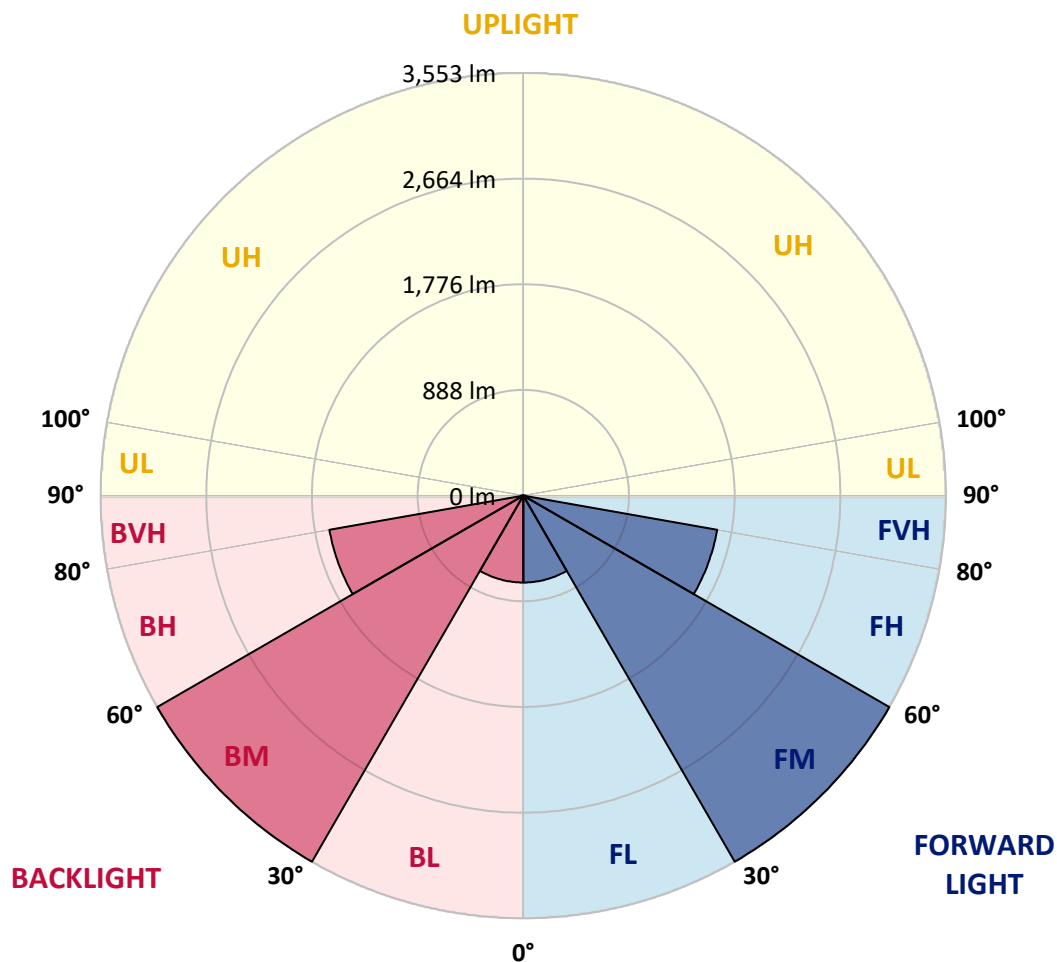
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	730.1	6.1			
FM	(30°-60°)	3552.6	29.8			
FH	(60°-80°)	1654.6	13.9			G1/1800
FVH	(80°-90°)	20.2	0.2			G1/100
BL	(0°-30°)	730.1	6.1	B2/1000		
BM	(30°-60°)	3552.6	29.8	B3/5000		
BH	(60°-80°)	1654.6	13.9	B3/2500		G1/1800
BVH	(80°-90°)	20.2	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°	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1	1440.1
2.5°	1445.8	1449.0	1446.4	1445.8	1445.2	1445.2	1445.2	1445.8	1448.3	1450.2	1449.0
5°	1464.1	1466.6	1465.4	1464.7	1464.1	1464.1	1463.5	1462.8	1464.7	1464.7	1464.1
7.5°	1486.8	1490.0	1488.7	1490.0	1490.6	1491.2	1488.1	1485.6	1484.9	1486.8	1485.6
10°	1517.8	1520.3	1520.9	1521.5	1522.8	1522.2	1518.4	1514.0	1513.3	1512.7	1512.1
12.5°	1552.5	1554.4	1555.0	1557.5	1559.4	1560.0	1555.6	1551.8	1545.5	1546.8	1544.3
15°	1591.6	1595.4	1594.7	1598.5	1603.6	1604.8	1600.4	1594.1	1588.4	1585.3	1583.4
17.5°	1639.5	1642.1	1640.8	1644.6	1650.9	1654.1	1650.3	1642.1	1636.4	1629.5	1625.7
20°	1696.3	1700.8	1702.0	1702.0	1707.7	1710.9	1705.2	1702.7	1693.8	1688.8	1685.6
22.5°	1760.7	1762.6	1766.4	1770.2	1775.9	1774.6	1772.7	1768.9	1760.7	1756.3	1751.3
25°	1833.3	1835.2	1844.7	1852.9	1854.7	1853.5	1851.0	1849.1	1841.5	1831.4	1827.6
27.5°	1917.9	1921.6	1934.3	1941.8	1941.8	1942.5	1937.4	1943.7	1927.3	1915.3	1914.1
30°	2023.9	2026.4	2037.1	2044.7	2040.9	2037.8	2036.5	2042.8	2025.1	2003.7	1998.6
32.5°	2128.6	2137.5	2146.9	2163.3	2150.1	2144.4	2143.2	2147.6	2127.4	2103.4	2096.5
35°	2241.0	2247.3	2265.0	2278.8	2266.8	2253.6	2259.3	2273.2	2249.2	2217.0	2215.7
37.5°	2365.3	2371.0	2393.7	2408.2	2399.4	2376.7	2386.1	2402.5	2378.5	2338.8	2330.6
40°	2494.7	2506.7	2535.1	2550.2	2535.7	2505.4	2523.1	2540.7	2519.3	2473.2	2454.9
42.5°	2639.8	2658.7	2699.8	2707.3	2679.6	2638.6	2669.5	2697.9	2682.7	2629.7	2622.8
45°	2809.6	2820.9	2871.4	2887.8	2849.3	2798.2	2836.7	2888.5	2877.1	2815.9	2802.6
47.5°	2999.5	3010.3	3062.6	3087.3	3038.7	2969.9	3039.3	3106.8	3099.9	3034.2	3027.9
50°	3224.2	3226.7	3299.3	3327.1	3278.5	3219.1	3281.0	3364.9	3337.2	3253.2	3252.0
52.5°	3470.3	3473.5	3565.0	3618.6	3591.5	3524.6	3597.8	3648.9	3578.2	3468.4	3460.2
55°	3683.6	3699.4	3824.4	3967.0	4004.2	3955.6	3977.7	3953.7	3779.5	3625.6	3601.6
57.5°	3770.7	3801.6	3991.6	4257.9	4500.2	4572.2	4401.8	4173.3	3859.7	3642.0	3618.6
60°	3558.0	3591.5	3886.2	4391.7	5010.2	5322.5	4843.6	4210.6	3677.3	3371.2	3334.6
62.5°	2849.3	2858.8	3292.4	4076.8	5307.4	6116.4	5029.7	3893.1	3146.6	2730.7	2716.2
64°	2050.4	2147.6	2607.0	3574.4	5177.4	6418.7	4922.4	3448.2	2555.9	2134.9	2066.8
65°	1533.5	1560.0	2101.5	3052.5	4948.3	6396.0	4714.2	3022.9	2116.6	1633.9	1558.1
67.5°	579.3	582.5	775.6	1521.5	3522.7	5503.0	3597.8	1644.6	891.7	645.0	621.6
70°	240.4	244.9	284.6	511.8	1514.0	3533.4	1734.8	593.2	326.3	264.4	260.6
72.5°	176.1	178.6	190.6	227.2	465.7	1450.9	570.5	251.8	191.2	171.0	169.1
75°	138.2	139.5	148.3	167.2	217.1	402.0	237.3	172.9	145.8	131.3	130.0
77.5°	105.4	108.5	114.9	127.5	145.8	190.6	157.1	129.4	112.3	100.3	98.4
80°	72.6	76.4	88.4	93.4	97.8	123.7	107.3	97.8	87.7	73.2	68.8
82.5°	44.8	47.3	59.3	63.7	61.8	69.4	68.8	70.1	62.5	45.4	42.3
85°	23.4	24.6	32.2	33.4	30.9	28.4	35.3	41.0	38.5	25.9	25.2
87.5°	5.0	5.7	6.9	6.3	6.9	6.9	8.8	13.3	13.9	8.8	8.2
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)