

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: P528879

Luminaire Tested: **GALN-SA4A-730-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528879
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10647 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

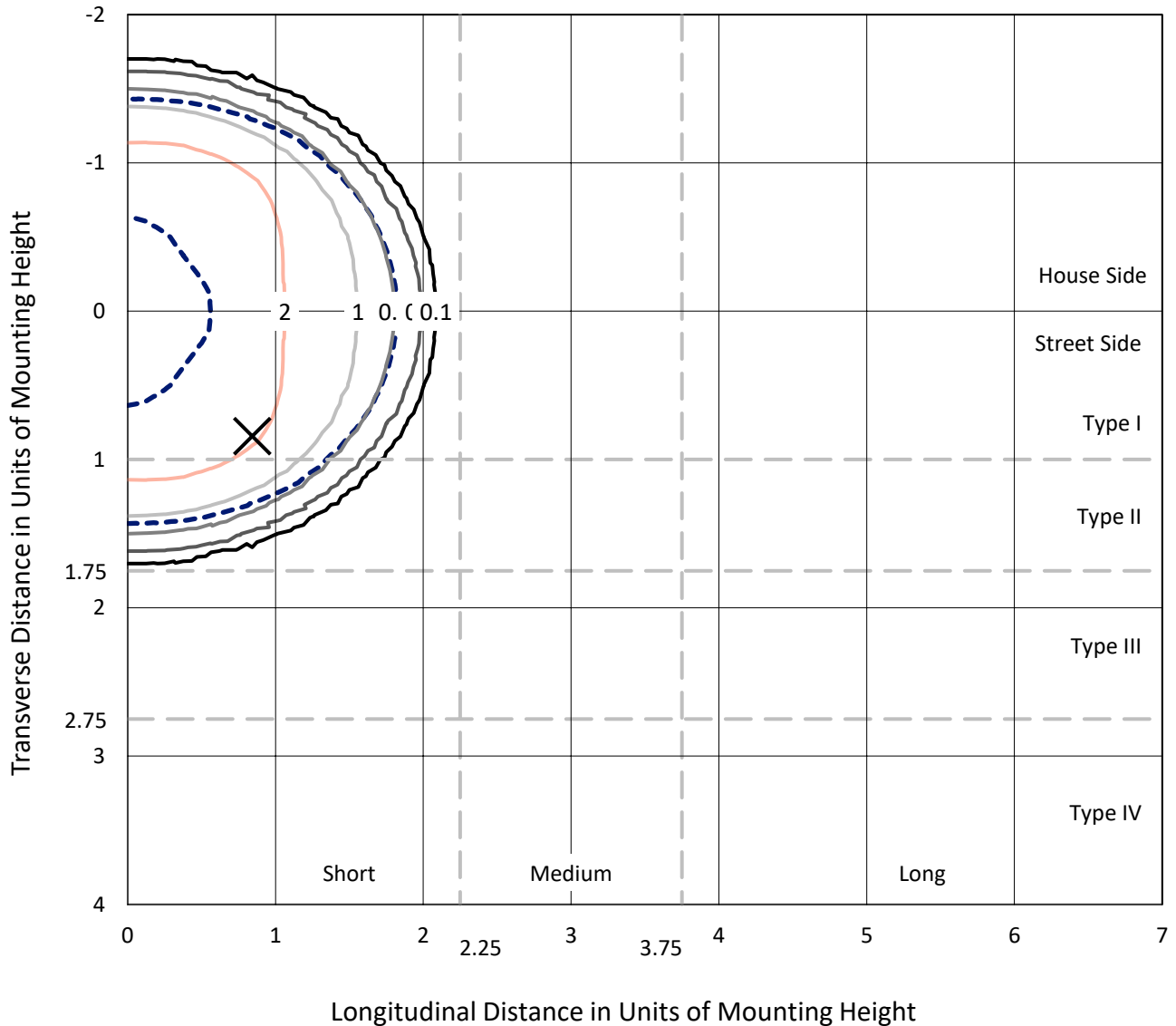
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

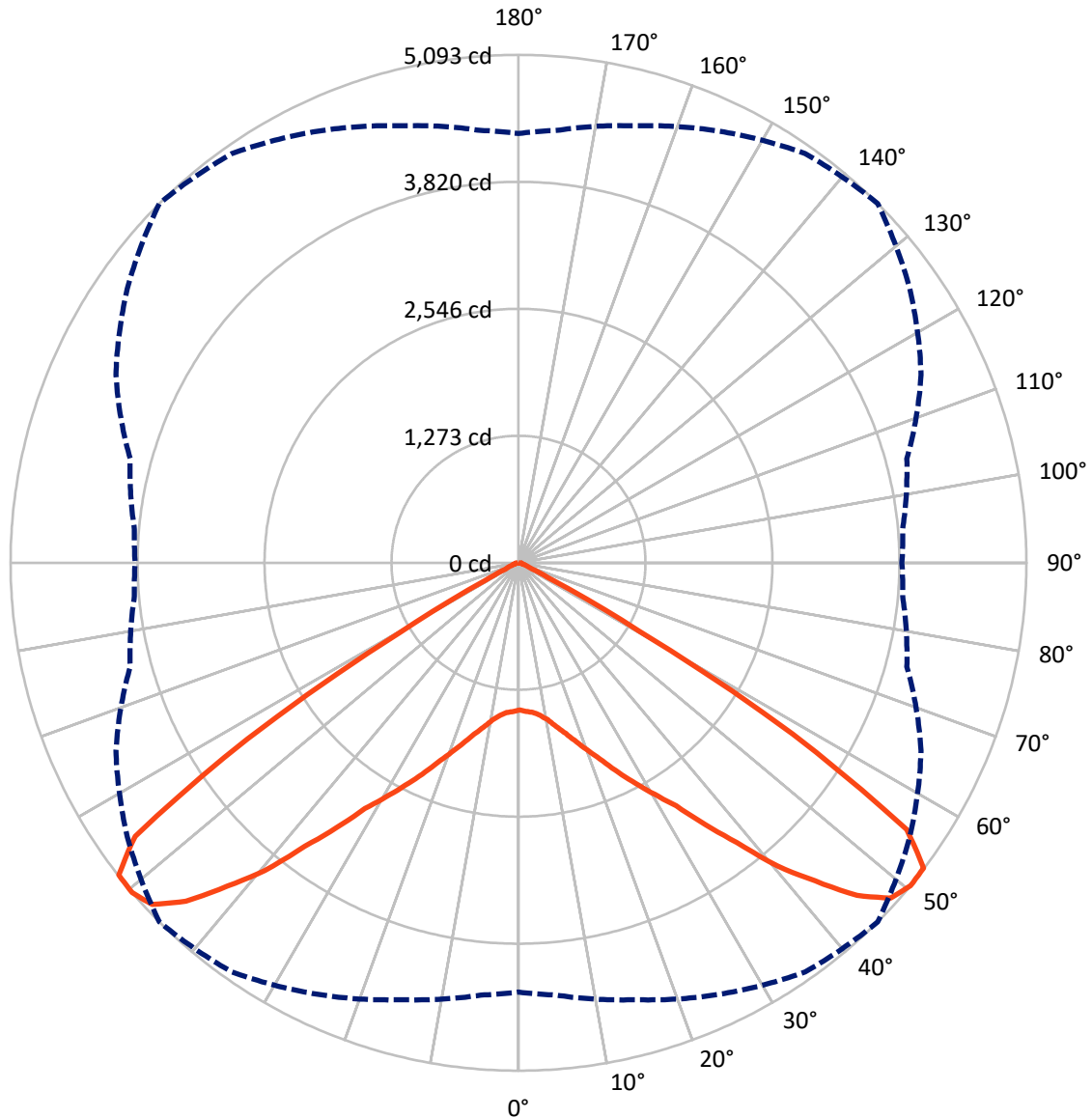
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5323.5	0.0	5323.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5323.5	0.0	5323.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10647.0	0.0	10647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	1.4
10°-20°	506.1	4.8
20°-30°	1033.7	9.7
30°-40°	1971.3	18.5
40°-50°	3321.9	31.2
50°-60°	3168.0	29.8
60°-70°	442.2	4.2
70°-80°	42.3	0.4
80°-90°	14.6	0.1
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°	10647.0	100.0
0°-180°	10647.0	100.0

Coefficient of Utilization

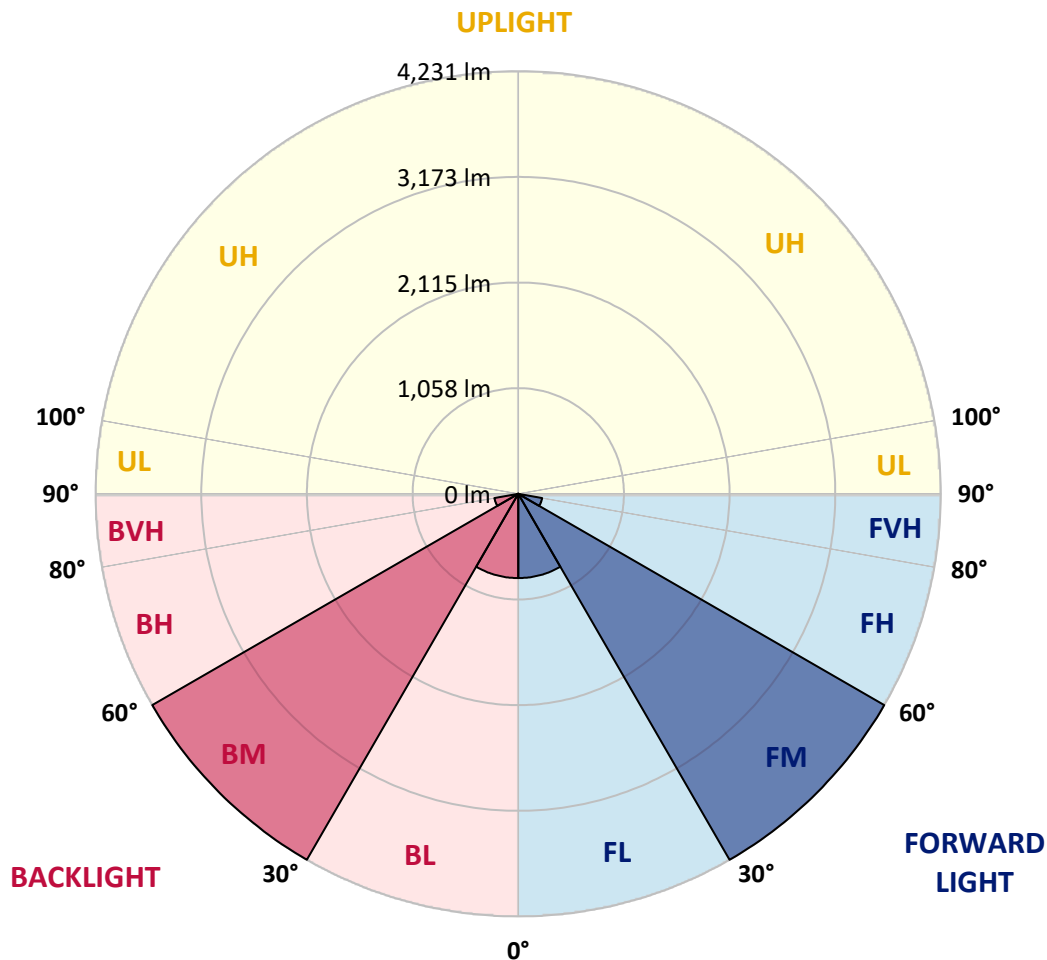


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	843.3	7.9			
FM (30°-60°)	4230.6	39.7			
FH (60°-80°)	242.3	2.3			G0/660
FVH (80°-90°)	7.3	0.1			G0/10
BL (0°-30°)	843.3	7.9	B2/1000		
BM (30°-60°)	4230.6	39.7	B3/5000		
BH (60°-80°)	242.3	2.3	B1/500		G0/660
BVH (80°-90°)	7.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1	1476.1
2.5°	1470.7	1470.7	1468.9	1483.3	1476.1	1492.2	1490.4	1495.8	1501.2	1499.4	1513.7
5°	1458.2	1456.4	1456.4	1472.5	1488.6	1506.5	1522.7	1533.4	1551.3	1551.3	1569.2
7.5°	1470.7	1461.8	1474.3	1481.5	1511.9	1542.4	1569.2	1590.7	1631.9	1646.3	1640.9
10°	1474.3	1485.0	1494.0	1515.5	1553.1	1599.7	1623.0	1676.7	1723.3	1755.5	1762.7
12.5°	1497.6	1513.7	1538.8	1590.7	1624.8	1685.7	1717.9	1769.9	1834.4	1870.2	1895.3
15°	1542.4	1547.7	1580.0	1646.3	1719.7	1775.2	1825.4	1863.0	1925.7	1966.9	1968.7
17.5°	1599.7	1623.0	1667.8	1730.5	1807.5	1889.9	1929.3	1970.5	1993.8	2049.3	2061.9
20°	1714.3	1717.9	1760.9	1843.3	1940.1	2015.3	2044.0	2065.5	2056.5	2113.8	2124.6
22.5°	1821.8	1825.4	1879.1	1990.2	2094.1	2158.6	2171.1	2158.6	2131.7	2172.9	2176.5
25°	1931.1	1963.3	2002.8	2113.8	2242.8	2328.8	2330.6	2296.5	2241.0	2248.2	2266.1
27.5°	2101.3	2124.6	2165.8	2267.9	2409.4	2506.1	2490.0	2448.8	2377.1	2382.5	2377.1
30°	2300.1	2321.6	2355.7	2486.4	2590.3	2696.0	2719.3	2679.9	2572.4	2549.1	2576.0
32.5°	2540.2	2570.6	2633.3	2753.3	2841.1	2905.6	2921.7	2907.4	2807.1	2798.1	2816.0
35°	2832.2	2873.4	2930.7	3036.4	3108.0	3224.5	3224.5	3176.1	3084.7	3095.5	3093.7
37.5°	3140.3	3201.2	3290.7	3398.2	3495.0	3557.7	3538.0	3496.8	3405.4	3382.1	3405.4
40°	3527.2	3557.7	3670.5	3810.2	3928.5	4000.1	3915.9	3826.4	3607.8	3641.9	3704.6
42.5°	3880.1	3928.5	4014.5	4168.5	4302.9	4362.0	4261.7	4084.3	3821.0	3794.1	3840.7
45°	4181.1	4233.0	4345.9	4566.2	4707.7	4759.7	4537.5	4250.9	3950.0	3881.9	3901.6
47.5°	4381.7	4408.6	4566.2	4775.8	4904.8	5023.0	4704.1	4365.6	4010.9	3881.9	3874.7
50°	4304.7	4351.2	4535.8	4774.0	5008.7	5092.9	4788.3	4453.3	4030.6	3865.8	3844.3
52.5°	3822.8	3903.4	4109.4	4430.1	4784.8	5085.7	4904.8	4424.7	4023.4	3881.9	3914.1
55°	2660.2	2662.0	2912.8	3385.7	4012.7	4722.1	4734.6	4456.9	4070.0	3982.2	3984.0
57.5°	1069.4	1123.2	1314.9	1789.6	2368.2	3242.4	3855.0	4134.5	4075.4	4053.9	4109.4
60°	270.5	272.3	331.4	505.2	833.0	1390.1	2018.9	2731.8	3145.6	3287.2	3306.9
62.5°	137.9	139.7	154.1	179.1	227.5	372.6	662.8	1051.5	1495.8	1721.5	1780.6
65°	112.9	112.9	121.8	134.4	136.1	143.3	172.0	245.4	356.5	404.8	410.2
67.5°	86.0	86.0	93.2	100.3	103.9	102.1	98.5	102.1	123.6	118.2	114.6
70°	53.7	55.5	59.1	66.3	69.9	71.7	73.4	77.0	87.8	91.4	87.8
72.5°	32.2	32.2	34.0	39.4	44.8	48.4	53.7	57.3	62.7	71.7	69.9
75°	14.3	14.3	17.9	23.3	28.7	34.0	39.4	44.8	48.4	53.7	55.5
77.5°	3.6	5.4	9.0	16.1	21.5	28.7	35.8	41.2	44.8	44.8	43.0
80°	1.8	1.8	7.2	12.5	23.3	30.5	39.4	43.0	48.4	44.8	39.4
82.5°	1.8	1.8	7.2	12.5	21.5	30.5	41.2	46.6	50.2	44.8	37.6
85°	0.0	1.8	5.4	10.7	17.9	21.5	17.9	12.5	7.2	7.2	5.4
87.5°	0.0	0.0	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)