

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: P651768

Luminaire Tested: **GALN-SA3A-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651768
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-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 11981.7 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

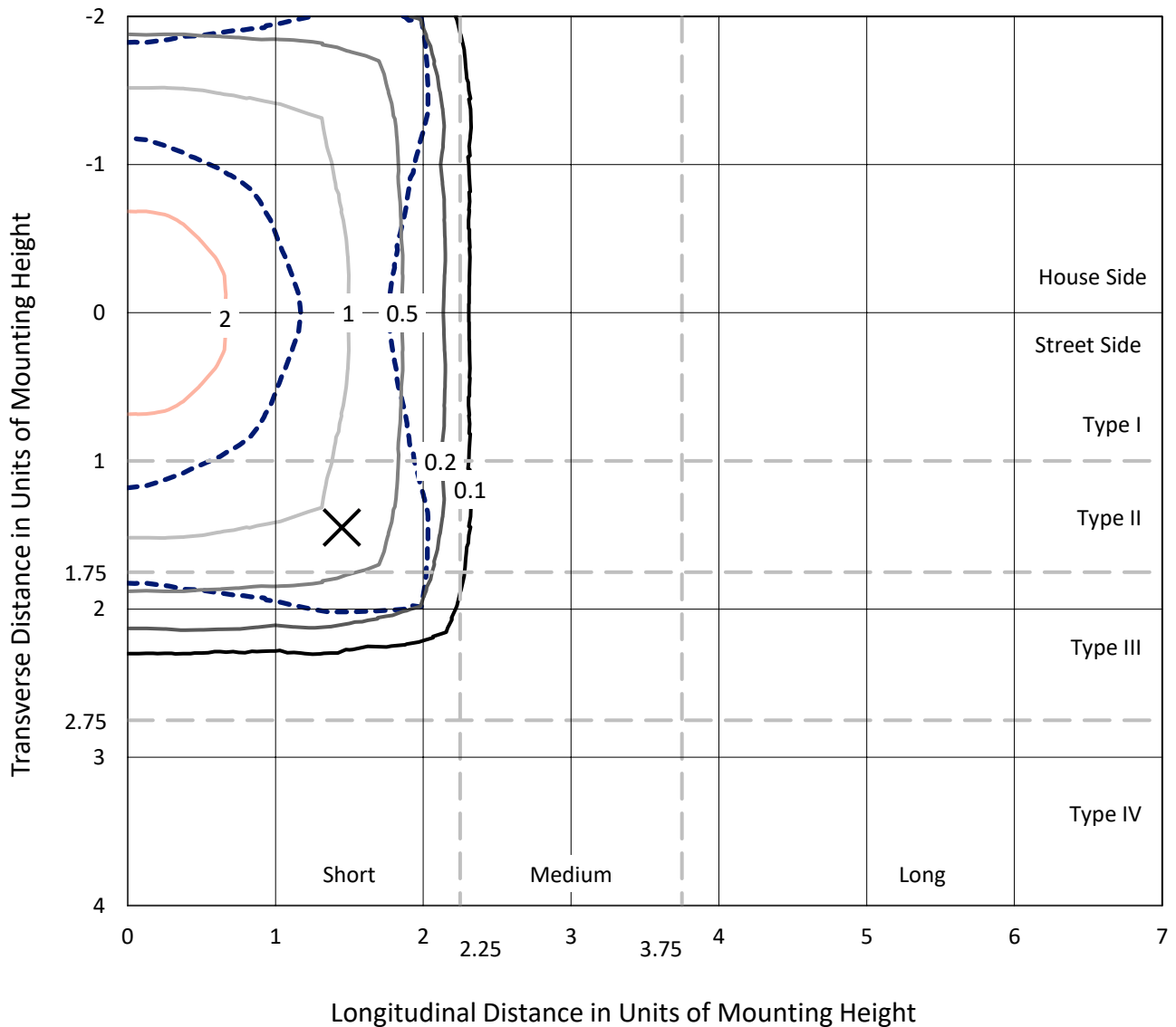
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

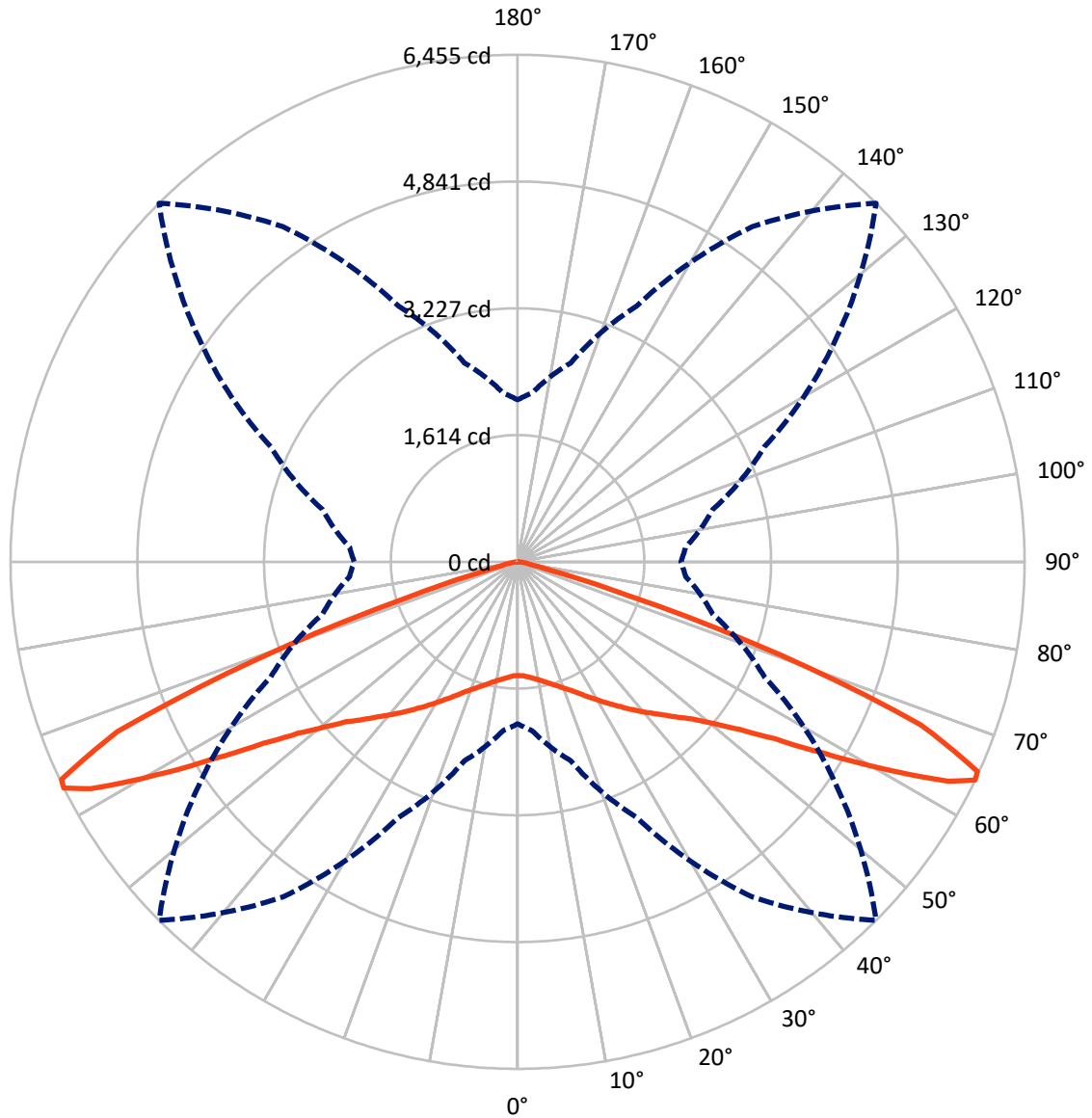
✕ Max cd
 - - - 1/2 Max cd



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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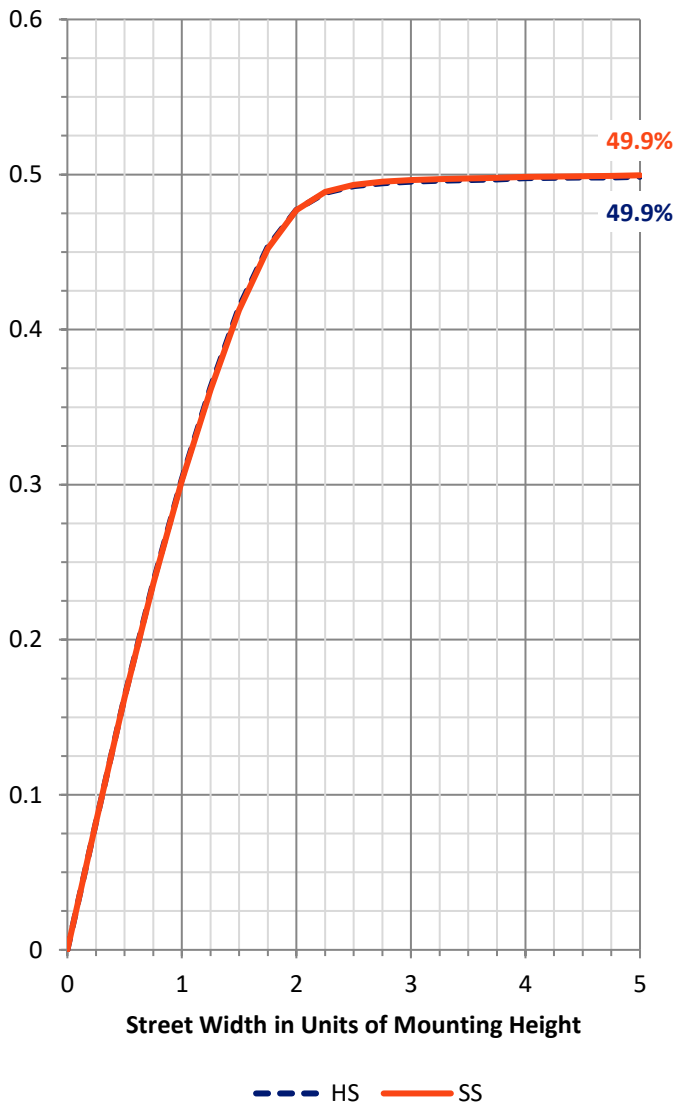
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5990.9	0.0	5990.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5990.9	0.0	5990.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	11981.7	0.0	11981.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	1.2
10°-20°	458.9	3.8
20°-30°	867.2	7.2
30°-40°	1436.3	12.0
40°-50°	2242.2	18.7
50°-60°	3466.4	28.9
60°-70°	2989.1	24.9
70°-80°	338.7	2.8
80°-90°	40.6	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°	11981.7	100.0
0°-180°	11981.7	100.0



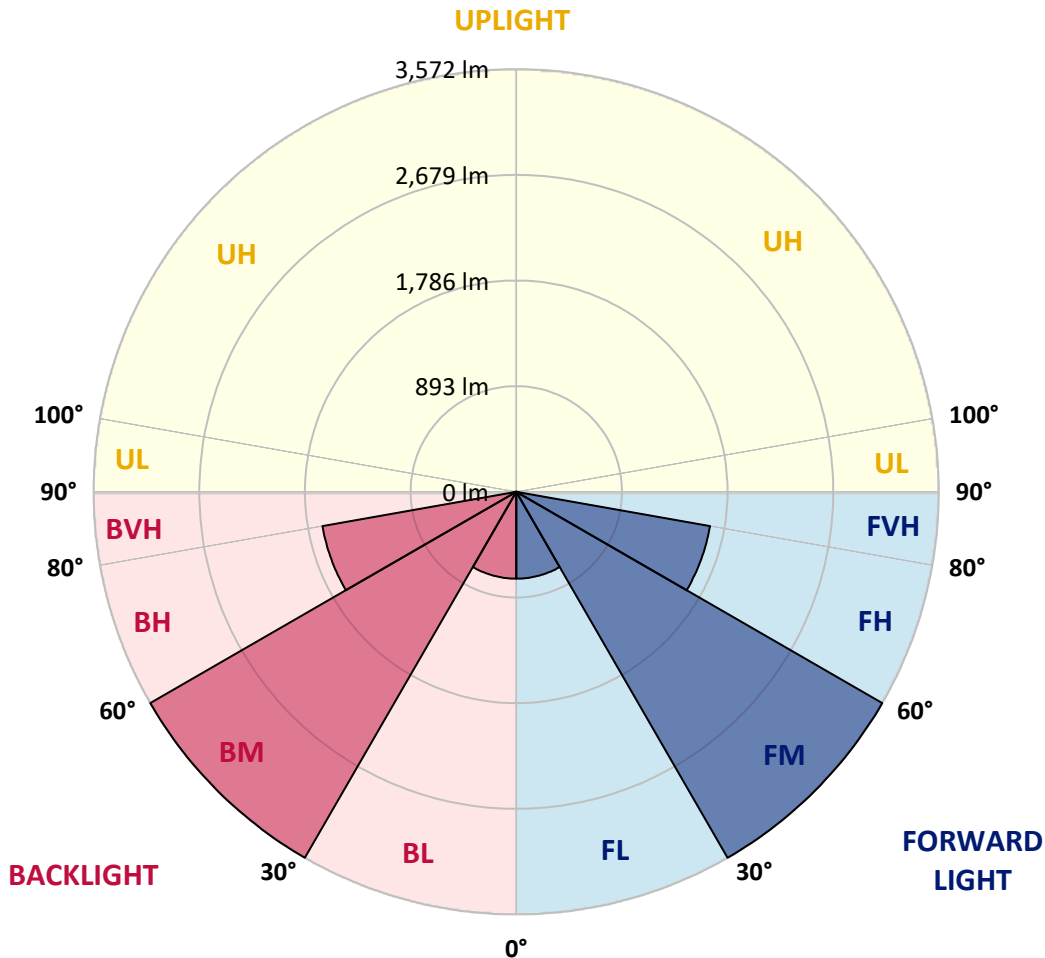
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	734.2	6.1			
FM (30°-60°)	3572.4	29.8			
FH (60°-80°)	1663.9	13.9			G1/1800
FVH (80°-90°)	20.3	0.2			G1/100
BL (0°-30°)	734.2	6.1	B2/1000		
BM (30°-60°)	3572.4	29.8	B3/5000		
BH (60°-80°)	1663.9	13.9	B3/2500		G1/1800
BVH (80°-90°)	20.3	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°	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2	1448.2
2.5°	1453.9	1457.1	1454.5	1453.9	1453.2	1453.2	1453.2	1453.9	1456.4	1458.4	1457.1
5°	1472.3	1474.9	1473.6	1472.9	1472.3	1472.3	1471.7	1471.1	1472.9	1472.9	1472.3
7.5°	1495.1	1498.3	1497.1	1498.3	1499.0	1499.6	1496.4	1493.9	1493.3	1495.1	1493.9
10°	1526.2	1528.8	1529.4	1530.0	1531.3	1530.7	1526.9	1522.5	1521.8	1521.2	1520.5
12.5°	1561.1	1563.1	1563.7	1566.2	1568.1	1568.8	1564.3	1560.6	1554.2	1555.4	1552.9
15°	1600.5	1604.3	1603.7	1607.5	1612.5	1613.8	1609.4	1603.0	1597.3	1594.1	1592.3
17.5°	1648.7	1651.3	1650.0	1653.8	1660.1	1663.3	1659.5	1651.3	1645.6	1638.6	1634.7
20°	1705.9	1710.3	1711.5	1711.5	1717.2	1720.4	1714.7	1712.2	1703.3	1698.2	1695.0
22.5°	1770.6	1772.5	1776.3	1780.1	1785.8	1784.5	1782.7	1778.8	1770.6	1766.1	1761.1
25°	1843.6	1845.5	1855.0	1863.2	1865.2	1863.9	1861.3	1859.5	1851.8	1841.6	1837.8
27.5°	1928.6	1932.4	1945.1	1952.7	1952.7	1953.3	1948.3	1954.7	1938.1	1926.1	1924.8
30°	2035.2	2037.7	2048.5	2056.2	2052.4	2049.2	2047.9	2054.2	2036.5	2014.9	2009.8
32.5°	2140.6	2149.4	2158.9	2175.5	2162.1	2156.4	2155.1	2159.6	2139.3	2115.2	2108.2
35°	2253.5	2259.9	2277.6	2291.6	2279.5	2266.2	2272.0	2285.9	2261.8	2229.4	2228.1
37.5°	2378.5	2384.2	2407.1	2421.7	2412.8	2390.0	2399.5	2415.9	2391.9	2351.9	2343.6
40°	2508.6	2520.7	2549.2	2564.5	2549.9	2519.4	2537.2	2555.0	2533.3	2487.1	2468.7
42.5°	2654.6	2673.6	2714.9	2722.5	2694.6	2653.4	2684.4	2713.0	2697.8	2644.4	2637.5
45°	2825.3	2836.7	2887.5	2904.0	2865.3	2813.9	2852.6	2904.6	2893.2	2831.6	2818.4
47.5°	3016.3	3027.1	3079.8	3104.6	3055.7	2986.5	3056.3	3124.2	3117.3	3051.2	3044.9
50°	3242.2	3244.8	3317.7	3345.7	3296.8	3237.2	3299.3	3383.8	3355.8	3271.4	3270.1
52.5°	3489.7	3492.9	3584.9	3638.9	3611.6	3544.3	3618.0	3669.4	3598.3	3487.9	3479.6
55°	3704.3	3720.1	3845.8	3989.2	4026.6	3977.8	4000.0	3975.8	3800.7	3645.9	3621.8
57.5°	3791.8	3822.9	4013.9	4281.8	4525.4	4597.8	4426.4	4196.7	3881.3	3662.4	3638.9
60°	3578.0	3611.6	3908.0	4416.3	5038.2	5352.4	4870.7	4234.2	3697.9	3390.2	3353.3
62.5°	2865.3	2874.8	3310.8	4099.6	5337.2	6150.7	5057.9	3914.9	3164.2	2745.9	2731.4
64°	2061.9	2159.6	2621.6	3594.4	5206.4	6454.7	4950.0	3467.5	2570.2	2146.9	2078.4
65°	1542.1	1568.8	2113.3	3069.6	4976.0	6431.8	4740.5	3039.8	2128.5	1643.1	1566.9
67.5°	582.6	585.8	779.9	1530.0	3542.5	5533.9	3618.0	1653.8	896.7	648.6	625.1
70°	241.8	246.2	286.2	514.7	1522.5	3553.2	1744.6	596.5	328.1	265.9	262.1
72.5°	177.0	179.6	191.7	228.5	468.4	1459.0	573.7	253.2	192.3	172.0	170.1
75°	139.0	140.3	149.1	168.2	218.3	404.3	238.6	173.9	146.6	132.0	130.7
77.5°	106.0	109.2	115.5	128.2	146.6	191.7	158.0	130.1	112.9	100.9	99.0
80°	73.0	76.8	88.8	93.9	98.4	124.4	107.9	98.4	88.2	73.6	69.2
82.5°	45.1	47.6	59.6	64.1	62.2	69.8	69.2	70.5	62.8	45.7	42.6
85°	23.5	24.7	32.4	33.6	31.1	28.6	35.6	41.2	38.7	26.0	25.4
87.5°	5.0	5.7	7.0	6.3	7.0	7.0	8.9	13.3	14.0	8.9	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)