

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: P651228

Luminaire Tested: **GALN-SA2D-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13498 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 125
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

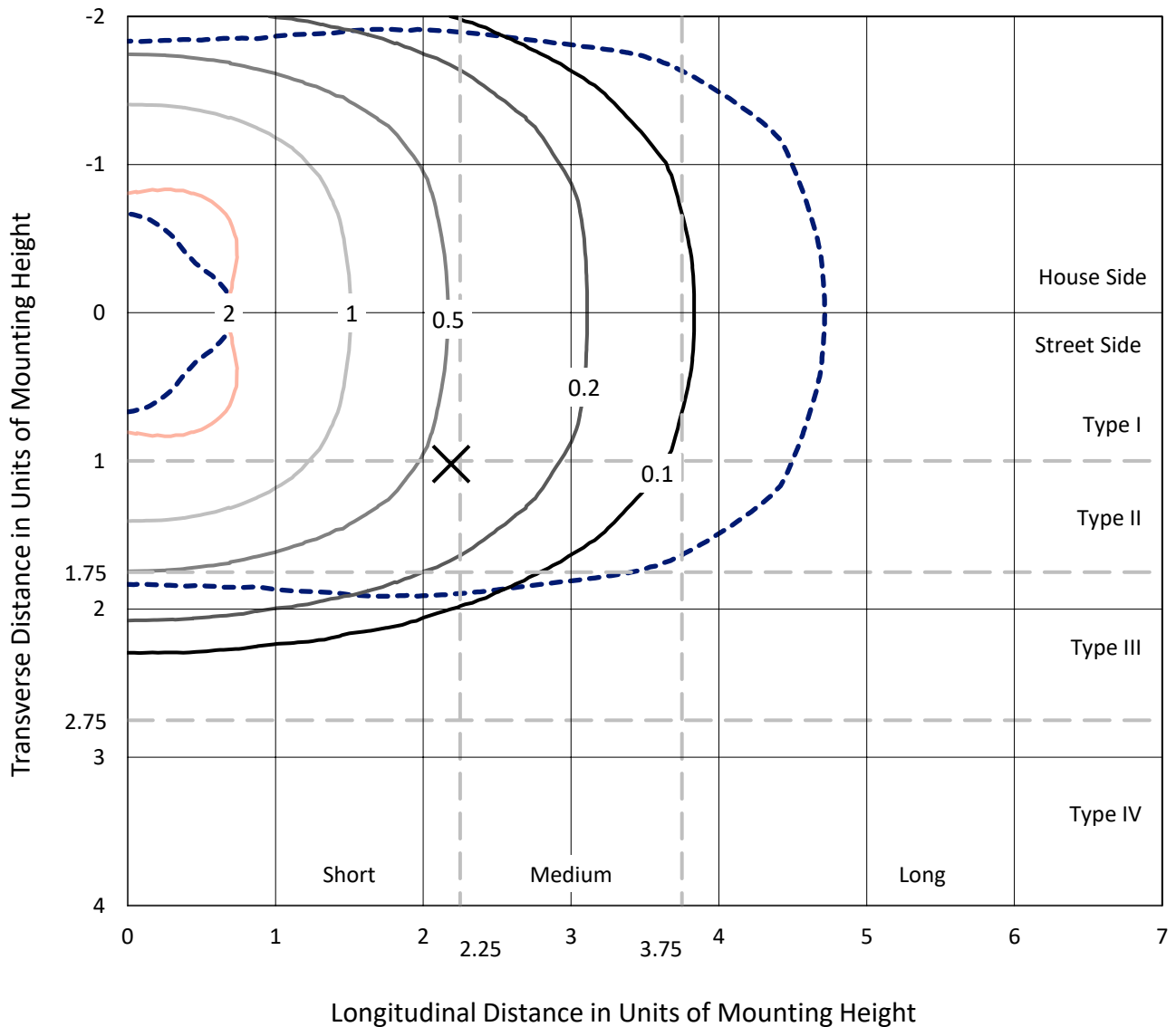




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Iso-Footcandle Lines of Horizontal Illumination

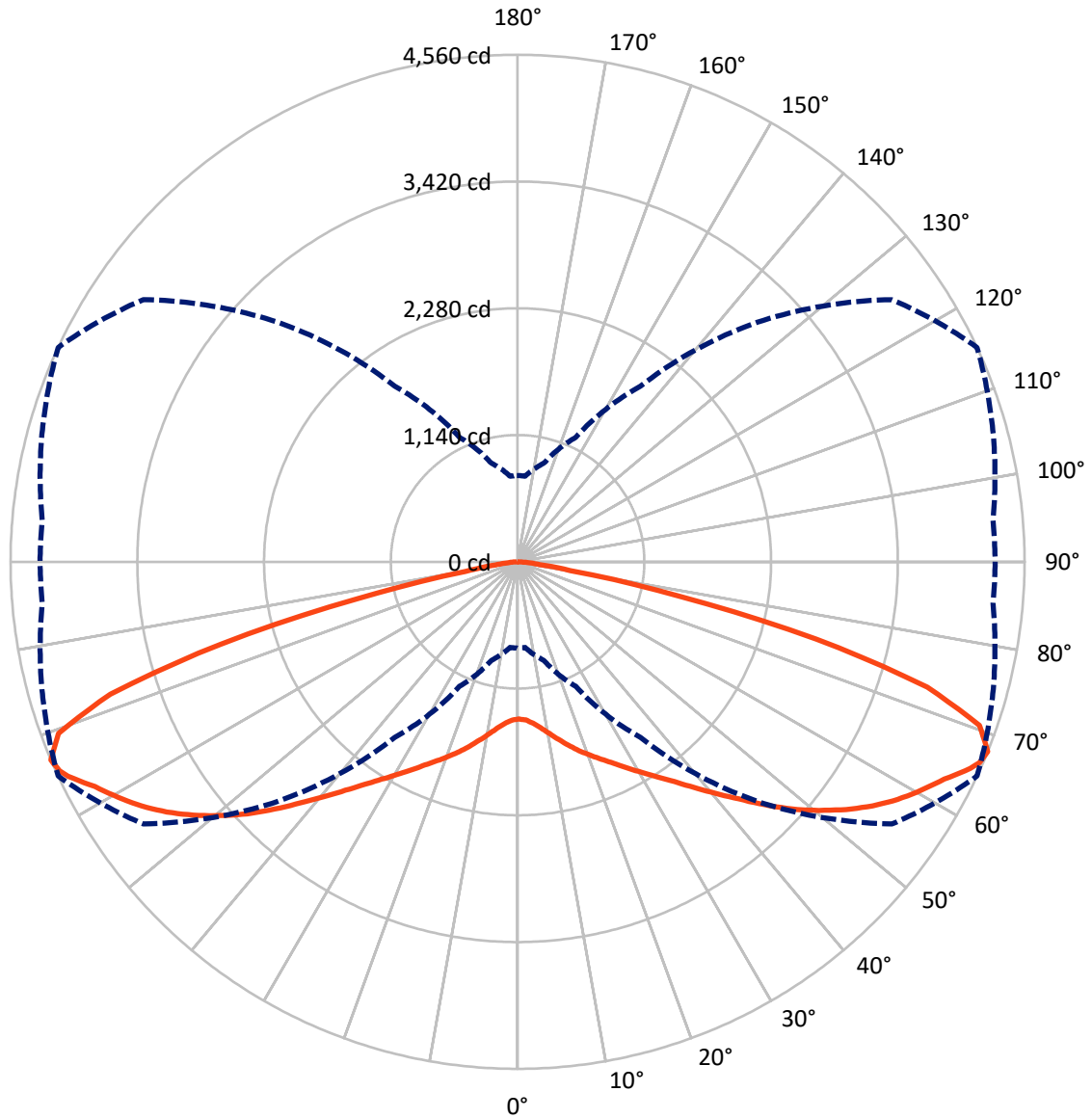
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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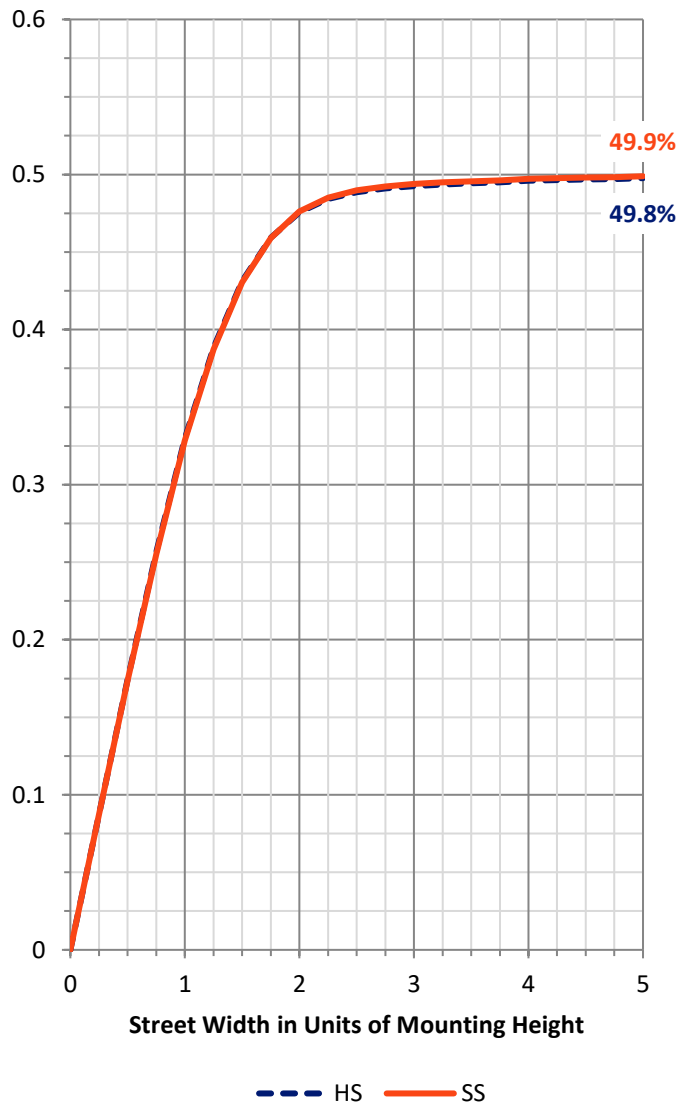
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6749.0	0.0	6749.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6749.0	0.0	6749.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13498.0	0.0	13498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	1.0
10°-20°	466.7	3.5
20°-30°	912.9	6.8
30°-40°	1552.7	11.5
40°-50°	2457.4	18.2
50°-60°	3258.5	24.1
60°-70°	3073.8	22.8
70°-80°	1519.5	11.3
80°-90°	117.1	0.9
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°	13498.0	100.0
0°-180°	13498.0	100.0

Coefficient of Utilization



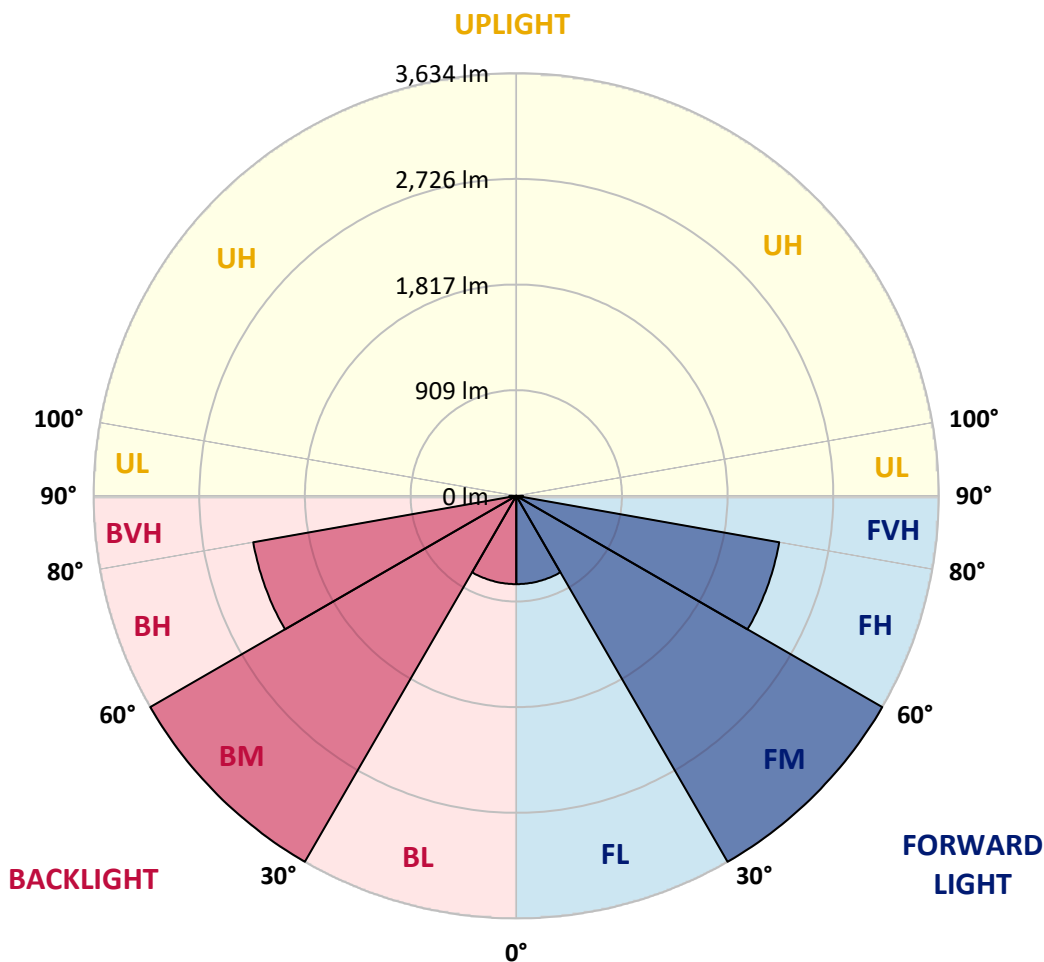
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	759.5	5.6			
FM	(30°-60°)	3634.3	26.9			
FH	(60°-80°)	2296.7	17.0			G2/5000
FVH	(80°-90°)	58.5	0.4			G1/100
BL	(0°-30°)	759.5	5.6	B2/1000		
BM	(30°-60°)	3634.3	26.9	B3/5000		
BH	(60°-80°)	2296.7	17.0	B3/2500		G3/2500
BVH	(80°-90°)	58.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8	1413.8
2.5°	1406.6	1408.0	1409.4	1411.6	1414.6	1418.9	1421.8	1423.9	1429.7	1430.5	1429.7
5°	1401.5	1403.0	1406.6	1413.0	1422.5	1435.5	1445.6	1457.9	1467.3	1473.9	1472.3
7.5°	1400.8	1403.7	1409.4	1423.2	1441.3	1463.7	1486.8	1507.8	1525.9	1540.4	1538.2
10°	1412.4	1416.0	1425.4	1445.6	1473.9	1506.4	1538.9	1570.0	1596.0	1614.8	1621.4
12.5°	1431.9	1434.7	1452.2	1482.5	1523.0	1563.5	1600.3	1638.7	1674.9	1706.7	1706.7
15°	1465.9	1470.9	1492.6	1536.8	1586.6	1633.6	1671.2	1711.8	1750.8	1787.0	1797.8
17.5°	1512.9	1520.1	1552.7	1609.1	1672.7	1716.1	1751.6	1784.8	1818.7	1853.5	1858.5
20°	1577.2	1584.4	1627.8	1695.9	1771.1	1823.1	1847.0	1854.9	1871.6	1904.9	1909.2
22.5°	1664.8	1672.0	1720.4	1797.0	1881.0	1937.4	1947.5	1928.7	1924.4	1950.4	1953.3
25°	1763.8	1770.3	1826.0	1908.5	1995.3	2056.7	2053.8	2007.6	1981.5	1997.4	2001.7
27.5°	1875.2	1884.6	1941.0	2026.3	2120.3	2174.6	2165.9	2098.6	2043.0	2040.1	2041.5
30°	2017.6	2027.7	2081.3	2163.0	2255.6	2305.4	2287.4	2197.0	2110.9	2082.0	2082.0
32.5°	2168.1	2193.4	2247.7	2332.9	2405.3	2441.4	2413.9	2305.4	2191.2	2150.7	2148.5
35°	2364.1	2377.8	2431.3	2514.5	2568.7	2596.9	2544.1	2427.7	2296.1	2248.3	2241.9
37.5°	2555.7	2567.2	2629.5	2709.0	2774.8	2773.4	2701.8	2573.0	2426.2	2372.7	2368.4
40°	2751.7	2763.9	2834.8	2907.8	2973.7	2967.9	2881.1	2737.2	2581.0	2521.0	2532.6
42.5°	2921.6	2935.3	3015.7	3119.8	3179.1	3177.6	3077.1	2915.1	2752.4	2698.9	2709.0
45°	3076.4	3088.7	3181.9	3301.3	3388.1	3398.9	3289.0	3117.6	2950.6	2881.9	2884.7
47.5°	3185.5	3208.8	3306.3	3443.1	3560.9	3599.2	3491.5	3323.7	3131.3	3059.7	3064.1
50°	3268.7	3283.2	3389.5	3545.0	3693.9	3773.5	3686.7	3514.6	3312.1	3236.2	3246.3
52.5°	3278.9	3296.2	3411.9	3591.2	3782.2	3903.0	3860.3	3701.2	3496.5	3418.4	3440.1
55°	3196.4	3206.6	3344.7	3562.3	3816.9	3999.1	4010.0	3874.7	3672.2	3612.9	3627.4
57.5°	2961.4	2987.4	3162.4	3427.1	3769.2	4050.5	4122.1	4032.4	3850.2	3791.6	3814.7
60°	2575.9	2602.0	2777.7	3113.3	3589.1	4026.6	4214.7	4171.9	4011.4	3964.4	3976.8
62.5°	2018.4	2016.2	2233.9	2645.4	3231.1	3909.5	4283.4	4306.5	4170.5	4111.2	4130.1
65°	1308.3	1314.7	1525.2	1968.4	2690.9	3611.5	4298.5	4477.9	4326.8	4237.0	4250.8
66°	1052.2	1071.8	1250.4	1659.0	2415.4	3416.2	4252.9	4528.5	4374.5	4266.0	4272.5
67.5°	776.7	773.0	919.9	1235.2	1928.7	3045.3	4110.5	4560.3	4428.7	4292.0	4294.9
70°	443.3	442.6	494.7	678.4	1133.9	2144.2	3464.8	4407.8	4538.6	4386.1	4378.1
72.5°	324.0	321.9	329.1	374.6	553.2	1082.6	2390.1	3852.4	4482.2	4370.8	4348.5
75°	271.9	270.5	269.0	274.8	310.2	490.3	1268.5	2771.2	3889.2	4102.6	4079.4
77.5°	222.0	222.0	222.7	221.3	222.7	258.2	525.7	1485.4	2368.4	2643.9	2708.3
80°	173.6	172.8	185.1	180.1	168.5	165.6	232.9	478.0	786.1	781.7	645.0
82.5°	128.0	119.3	141.0	137.4	124.4	105.5	136.0	203.9	262.5	170.6	126.6
85°	81.0	80.2	99.8	91.1	75.9	49.9	65.1	87.5	108.5	65.9	53.5
87.5°	14.5	13.7	31.8	23.1	23.1	14.5	18.1	23.9	35.4	24.6	18.1
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)