

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: P652319

Luminaire Tested: **GALN-SA4B-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9875 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

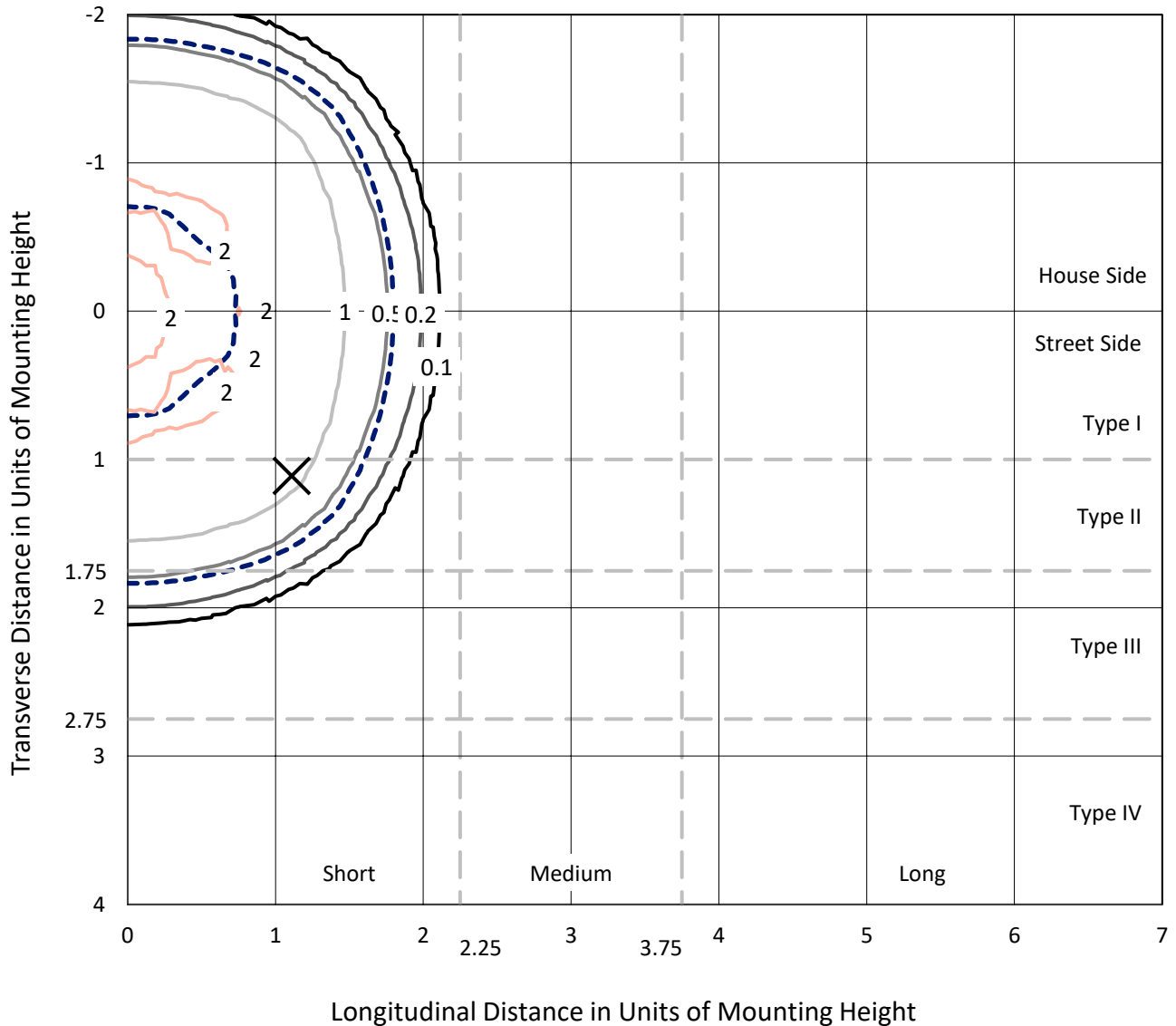
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

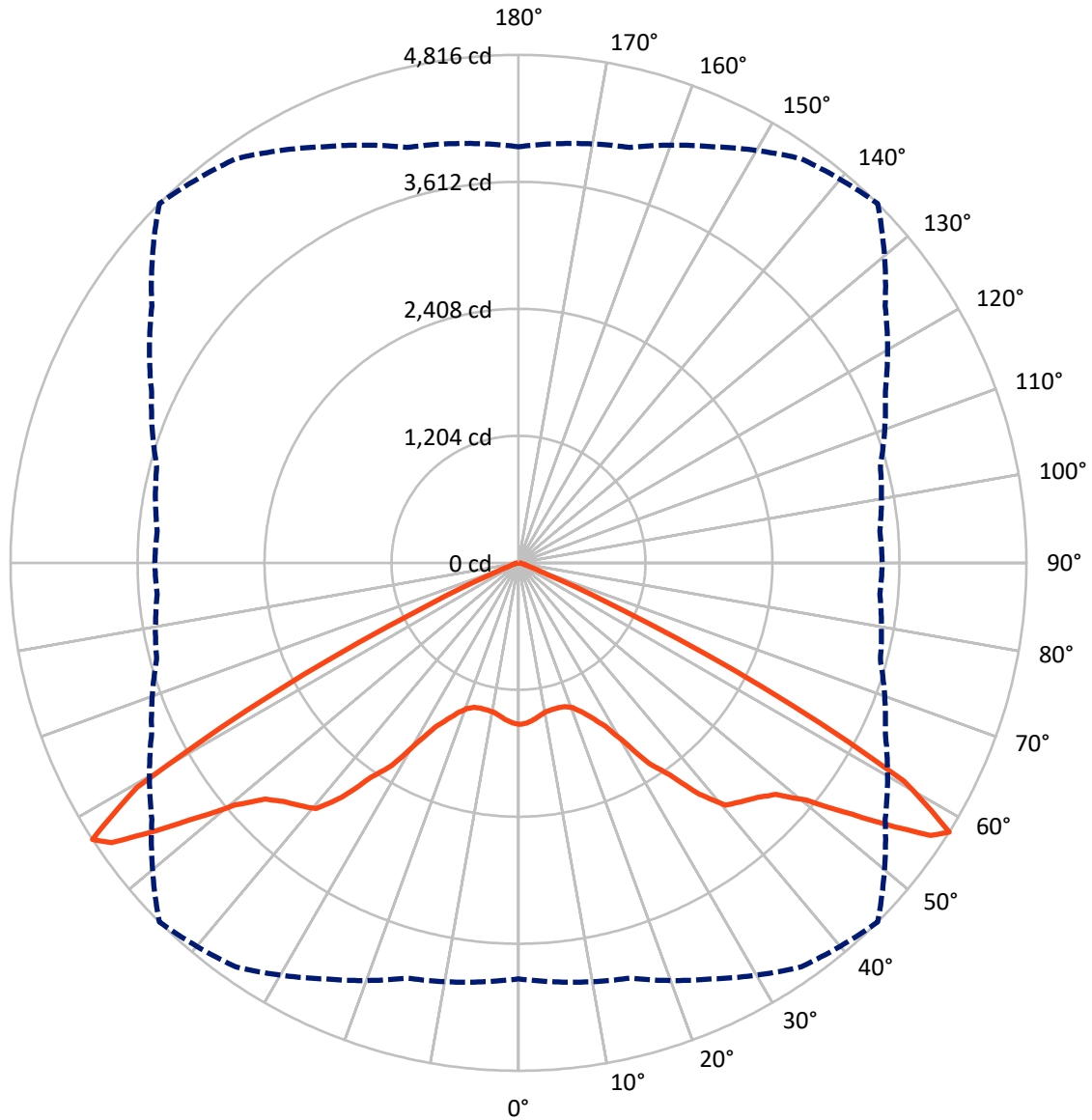
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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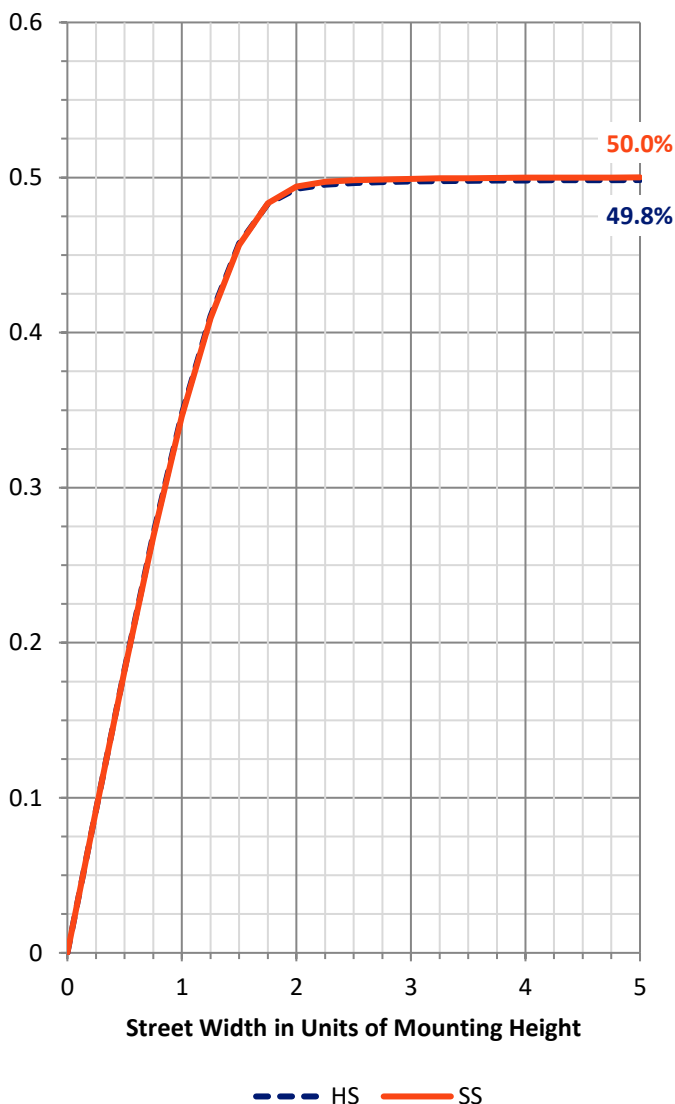
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4937.5	0.0	4937.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4937.5	0.0	4937.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9875.0	0.0	9875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	1.4
10°-20°	406.9	4.1
20°-30°	751.0	7.6
30°-40°	1476.9	15.0
40°-50°	2405.5	24.4
50°-60°	3430.6	34.7
60°-70°	1187.7	12.0
70°-80°	63.7	0.6
80°-90°	12.0	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°	9875.0	100.0
0°-180°	9875.0	100.0

Coefficient of Utilization

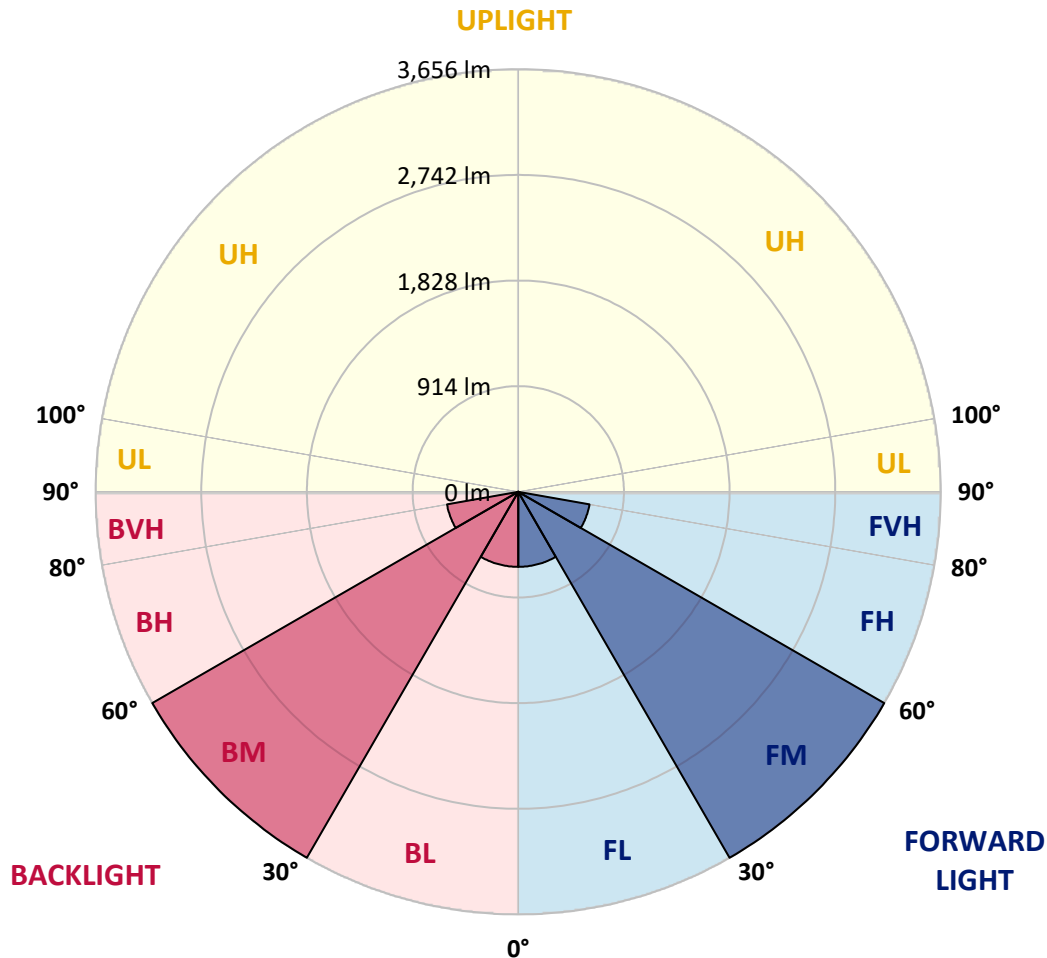


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.3	6.6			
FM (30°-60°)	3656.5	37.0			
FH (60°-80°)	625.7	6.3			G0/660
FVH (80°-90°)	6.0	0.1			G0/10
BL (0°-30°)	649.3	6.6	B2/1000		
BM (30°-60°)	3656.5	37.0	B3/5000		
BH (60°-80°)	625.7	6.3	B2/1000		G0/660
BVH (80°-90°)	6.0	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°	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7
2.5°	1527.6	1535.8	1525.6	1521.5	1519.4	1519.4	1513.2	1513.2	1511.1	1513.2	1505.0
5°	1502.9	1511.1	1511.1	1509.1	1496.7	1494.6	1488.5	1484.4	1486.5	1478.2	1484.4
7.5°	1478.2	1484.4	1476.1	1474.1	1470.0	1461.7	1459.6	1441.1	1443.2	1443.2	1447.3
10°	1474.1	1472.0	1459.6	1449.4	1437.0	1435.0	1428.8	1424.7	1424.7	1422.6	1428.8
12.5°	1474.1	1463.8	1461.7	1439.0	1418.5	1426.8	1410.3	1399.9	1414.4	1418.5	1426.8
15°	1472.0	1482.3	1447.3	1437.0	1422.6	1424.7	1410.3	1399.9	1408.2	1412.3	1418.5
17.5°	1484.4	1478.2	1467.9	1447.3	1441.1	1432.9	1414.4	1406.2	1406.2	1416.4	1418.5
20°	1517.3	1500.8	1480.2	1470.0	1476.1	1465.9	1443.2	1412.3	1420.5	1428.8	1435.0
22.5°	1548.2	1535.8	1521.5	1515.2	1550.2	1533.8	1494.6	1459.6	1447.3	1461.7	1472.0
25°	1607.9	1607.9	1581.2	1589.4	1628.5	1630.5	1585.3	1523.5	1515.2	1521.5	1525.6
27.5°	1729.3	1735.6	1712.9	1721.1	1737.6	1752.0	1712.9	1661.4	1642.9	1640.9	1647.0
30°	1861.1	1873.5	1871.4	1906.4	1953.7	1962.0	1904.4	1819.9	1764.3	1754.1	1762.3
32.5°	2034.0	2040.3	2036.1	2077.3	2204.9	2264.6	2114.4	1994.9	1920.8	1939.3	1920.8
35°	2359.3	2353.2	2307.9	2316.1	2421.1	2464.3	2320.2	2244.0	2209.1	2246.1	2237.9
37.5°	2639.3	2616.7	2579.6	2633.2	2742.2	2781.4	2631.1	2497.3	2433.4	2495.2	2522.0
40°	2876.1	2818.4	2767.0	2820.5	2966.7	3020.2	2799.9	2690.8	2666.1	2711.4	2769.1
42.5°	3075.8	3038.7	2970.8	2975.0	3071.7	3096.4	2919.4	2855.5	2830.8	2902.9	2931.6
45°	3217.8	3182.8	3119.0	3114.9	3189.0	3172.6	3014.1	2970.8	2985.2	3032.6	3046.9
47.5°	3289.9	3308.4	3271.4	3281.7	3320.8	3281.7	3156.1	3156.1	3123.1	3152.0	3137.5
50°	3497.8	3440.2	3487.5	3487.5	3528.8	3532.9	3407.2	3362.0	3273.4	3224.1	3224.1
52.5°	3740.8	3744.9	3763.4	3831.3	3901.3	3961.0	3782.0	3588.5	3440.2	3376.4	3368.1
55°	3940.5	3981.6	4055.7	4183.4	4385.1	4467.5	4158.7	3812.8	3631.7	3532.9	3512.3
56°	4049.6	4010.5	4138.1	4313.1	4576.6	4683.7	4220.5	3858.1	3658.4	3547.3	3545.2
57.5°	3944.6	3987.9	4076.3	4352.3	4675.5	4815.5	4243.1	3837.6	3551.4	3438.1	3448.4
60°	3114.9	3156.1	3275.5	3584.3	4090.8	4199.9	3590.5	3164.3	2909.0	2746.4	2748.5
62.5°	1762.3	1793.2	1885.9	2172.0	2487.0	2592.0	2237.9	1953.7	1776.7	1686.1	1657.3
65°	648.5	636.1	650.6	796.8	990.3	1078.8	930.6	786.4	693.8	660.9	648.5
67.5°	243.0	224.4	210.0	224.4	282.1	298.6	273.8	228.5	214.1	220.3	224.4
70°	150.3	142.0	113.2	107.1	105.0	102.9	109.1	115.3	131.8	154.4	158.5
72.5°	105.0	98.8	80.3	76.2	72.1	70.0	80.3	88.6	102.9	119.4	121.4
75°	41.2	43.2	41.2	45.3	47.3	49.5	57.6	63.8	70.0	70.0	68.0
77.5°	8.2	8.2	12.4	16.5	20.6	26.7	39.1	45.3	47.3	45.3	39.1
80°	0.0	0.0	4.1	8.2	16.5	22.6	35.0	39.1	43.2	39.1	30.9
82.5°	0.0	0.0	4.1	10.3	16.5	20.6	33.0	41.2	47.3	43.2	33.0
85°	0.0	0.0	4.1	8.2	12.4	14.4	14.4	10.3	10.3	6.1	4.1
87.5°	0.0	0.0	0.0	0.0	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)