

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: P651274

Luminaire Tested: **GALN-SA3D-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651274
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-SA3D-840-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA 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: 10130.7 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

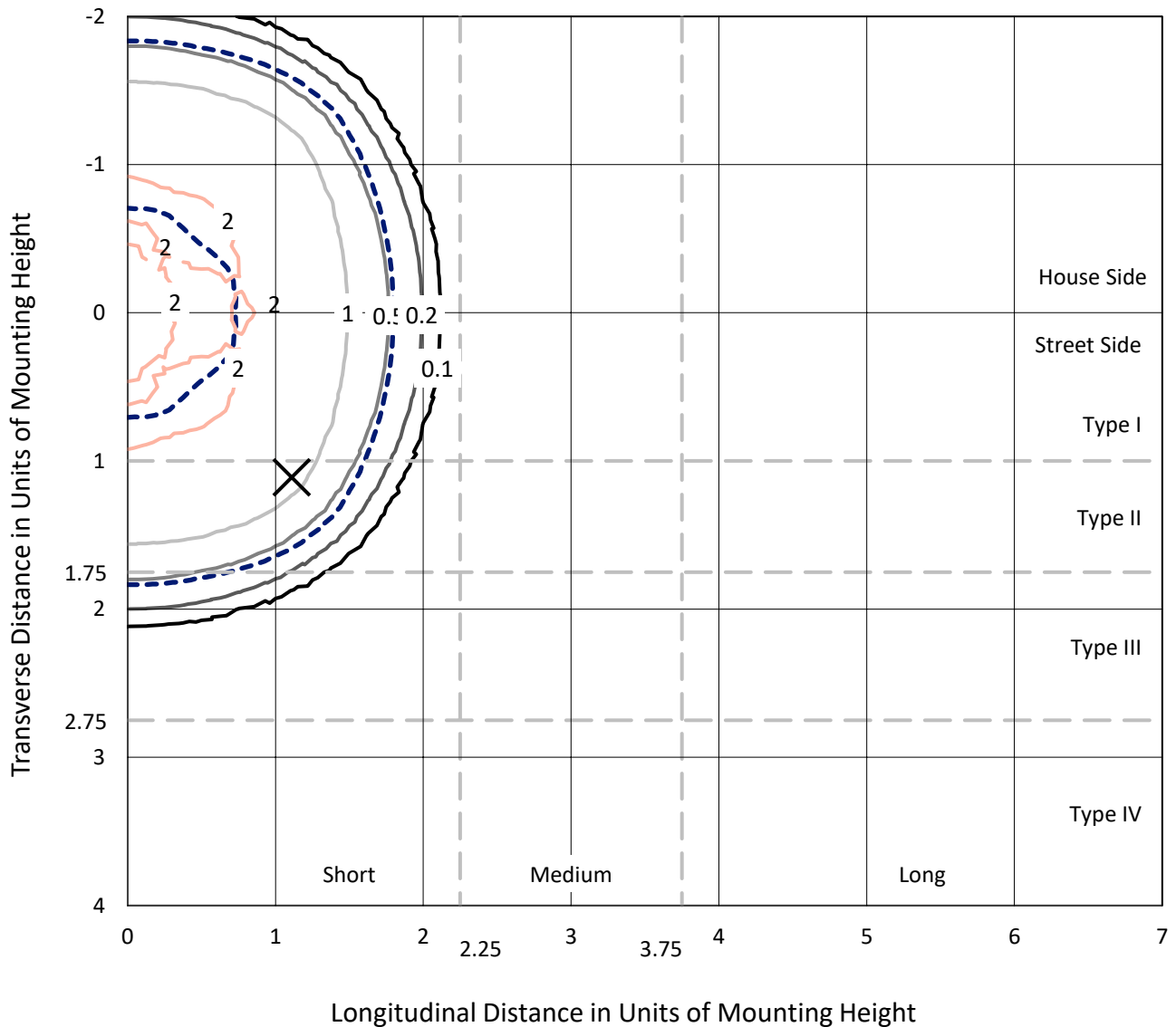
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

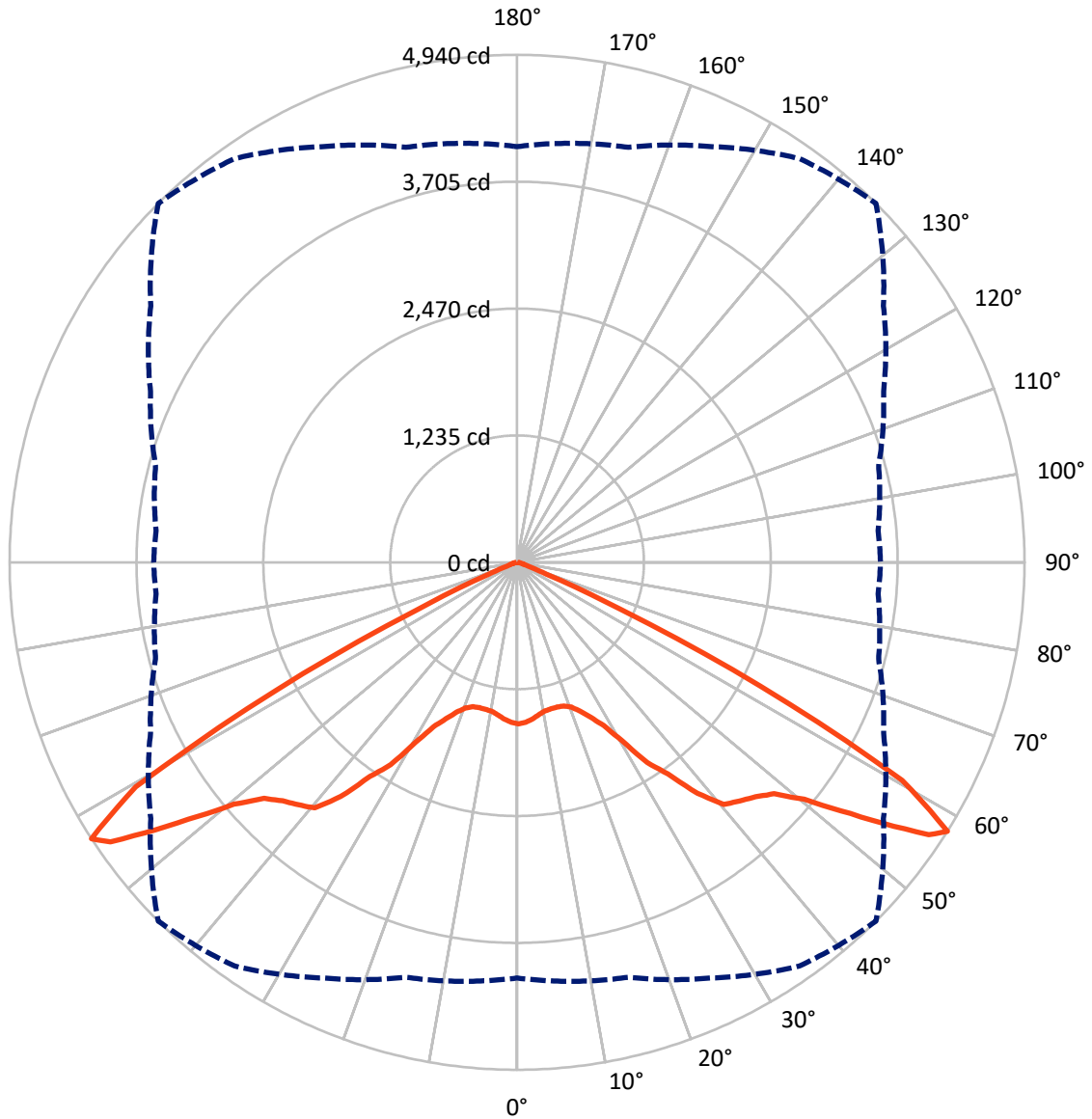
× Max cd
 - - - 1/2 Max cd



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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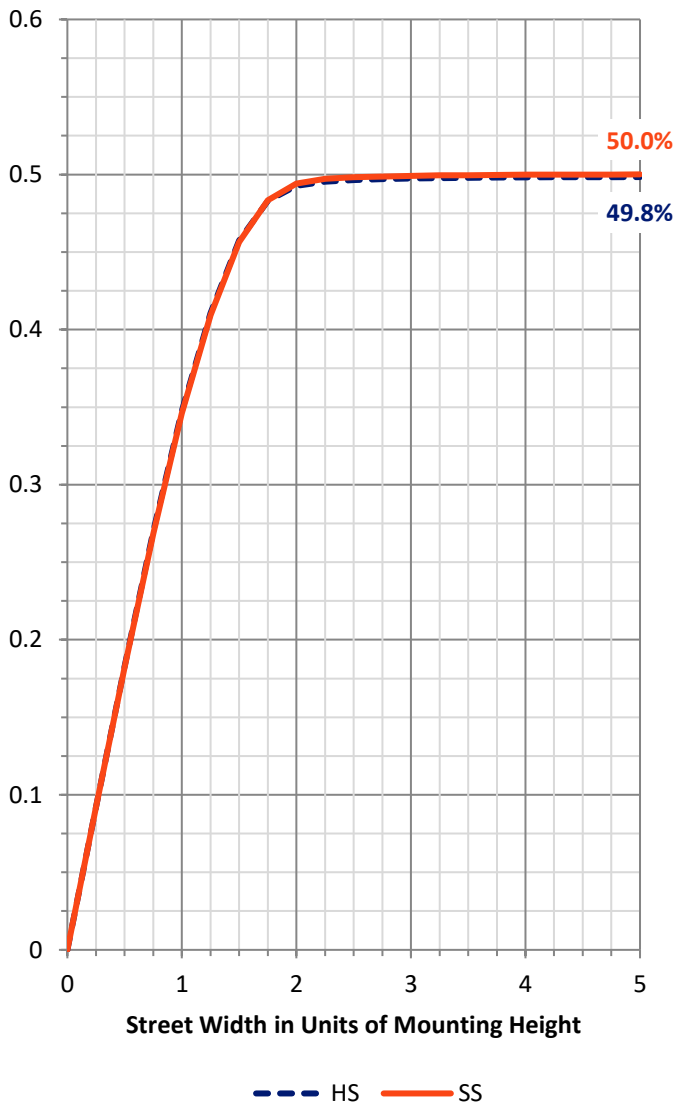
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5065.3	0.0	5065.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5065.3	0.0	5065.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	10130.7	0.0	10130.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	1.4
10°-20°	417.4	4.1
20°-30°	770.4	7.6
30°-40°	1515.2	15.0
40°-50°	2467.8	24.4
50°-60°	3519.4	34.7
60°-70°	1218.5	12.0
70°-80°	65.3	0.6
80°-90°	12.3	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°	10130.7	100.0
0°-180°	10130.7	100.0



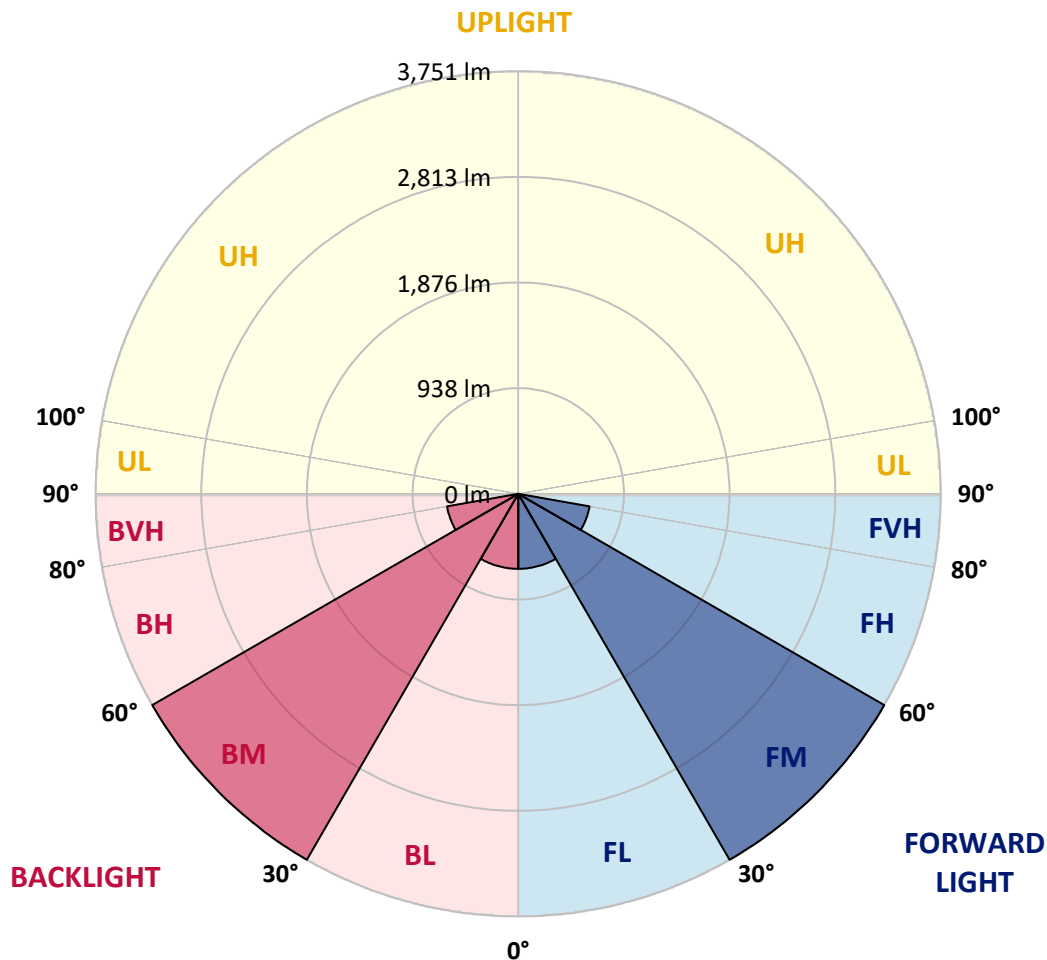
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	666.1	6.6			
FM (30°-60°)	3751.2	37.0			
FH (60°-80°)	641.9	6.3			G0/660
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	666.1	6.6	B2/1000		
BM (30°-60°)	3751.2	37.0	B3/5000		
BH (60°-80°)	641.9	6.3	B2/1000		G0/660
BVH (80°-90°)	6.1	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°	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4	1571.4
2.5°	1567.1	1575.6	1565.0	1560.8	1558.7	1558.7	1552.4	1552.4	1550.2	1552.4	1543.9
5°	1541.8	1550.2	1550.2	1548.1	1535.5	1533.4	1527.0	1522.8	1524.9	1516.5	1522.8
7.5°	1516.5	1522.8	1514.4	1512.2	1508.0	1499.6	1497.5	1478.5	1480.6	1480.6	1484.8
10°	1512.2	1510.1	1497.5	1486.9	1474.2	1472.1	1465.8	1461.6	1461.6	1459.5	1465.8
12.5°	1512.2	1501.7	1499.6	1476.3	1455.2	1463.7	1446.8	1436.2	1451.0	1455.2	1463.7
15°	1510.1	1520.7	1484.8	1474.2	1459.5	1461.6	1446.8	1436.2	1444.7	1448.9	1455.2
17.5°	1522.8	1516.5	1505.9	1484.8	1478.5	1470.0	1451.0	1442.6	1442.6	1453.1	1455.2
20°	1556.6	1539.7	1518.6	1508.0	1514.4	1503.8	1480.6	1448.9	1457.3	1465.8	1472.1
22.5°	1588.3	1575.6	1560.8	1554.5	1590.4	1573.5	1533.4	1497.5	1484.8	1499.6	1510.1
25°	1649.5	1649.5	1622.0	1630.5	1670.6	1672.7	1626.3	1562.9	1554.5	1560.8	1565.0
27.5°	1774.2	1780.5	1757.3	1765.7	1782.6	1797.4	1757.3	1704.5	1685.4	1683.3	1689.7
30°	1909.3	1921.9	1919.8	1955.7	2004.4	2012.8	1953.6	1867.1	1810.0	1799.5	1807.9
32.5°	2086.7	2093.1	2088.8	2131.1	2262.0	2323.3	2169.1	2046.6	1970.5	1989.6	1970.5
35°	2420.4	2414.1	2367.6	2376.1	2483.8	2528.1	2380.3	2302.2	2266.2	2304.3	2295.8
37.5°	2707.7	2684.5	2646.4	2701.3	2813.2	2853.4	2699.2	2561.9	2496.4	2559.8	2587.3
40°	2950.6	2891.4	2838.6	2893.5	3043.5	3098.4	2872.4	2760.5	2735.1	2781.6	2840.7
42.5°	3155.4	3117.4	3047.7	3051.9	3151.2	3176.5	2994.9	2929.5	2904.1	2978.0	3007.6
45°	3301.2	3265.3	3199.8	3195.5	3271.6	3254.7	3092.0	3047.7	3062.5	3111.1	3125.8
47.5°	3375.1	3394.1	3356.1	3366.6	3406.7	3366.6	3237.8	3237.8	3204.0	3233.6	3218.8
50°	3588.4	3529.3	3577.9	3577.9	3620.1	3624.3	3495.4	3449.0	3358.2	3307.5	3307.5
52.5°	3837.7	3841.9	3860.9	3930.6	4002.3	4063.6	3879.9	3681.3	3529.3	3463.8	3455.3
55°	4042.5	4084.7	4160.8	4291.7	4498.7	4583.2	4266.4	3911.6	3725.7	3624.3	3603.2
56°	4154.5	4114.3	4245.3	4424.8	4695.1	4805.0	4329.7	3958.0	3753.1	3639.1	3637.0
57.5°	4046.7	4091.0	4181.9	4464.9	4796.5	4940.1	4352.9	3936.9	3643.3	3527.2	3537.7
60°	3195.5	3237.8	3360.3	3677.1	4196.7	4308.6	3683.4	3246.3	2984.4	2817.5	2819.6
62.5°	1807.9	1839.6	1934.6	2228.2	2551.3	2659.1	2295.8	2004.4	1822.7	1729.8	1700.2
65°	665.3	652.6	667.4	817.4	1015.9	1106.8	954.6	806.8	711.7	678.0	665.3
67.5°	249.2	230.2	215.5	230.2	289.4	306.2	280.9	234.5	219.7	226.0	230.2
70°	154.2	145.7	116.1	109.8	107.7	105.6	111.9	118.2	135.1	158.4	162.6
72.5°	107.7	101.3	82.3	78.1	73.9	71.8	82.3	90.8	105.6	122.5	124.6
75°	42.2	44.3	42.2	46.5	48.6	50.7	59.1	65.5	71.8	71.8	69.7
77.5°	8.4	8.4	12.7	16.9	21.1	27.4	40.1	46.5	48.6	46.5	40.1
80°	0.0	0.0	4.2	8.4	16.9	23.2	35.9	40.1	44.3	40.1	31.7
82.5°	0.0	0.0	4.2	10.6	16.9	21.1	33.8	42.2	48.6	44.3	33.8
85°	0.0	0.0	4.2	8.4	12.7	14.8	14.8	10.6	10.6	6.3	4.2
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)