

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: P529733

Luminaire Tested: **GALN-SA4D-830-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529733
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-SA4D-830-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 12685 lumens
Efficiency: N/A
Efficacy: 51.8 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): 245
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

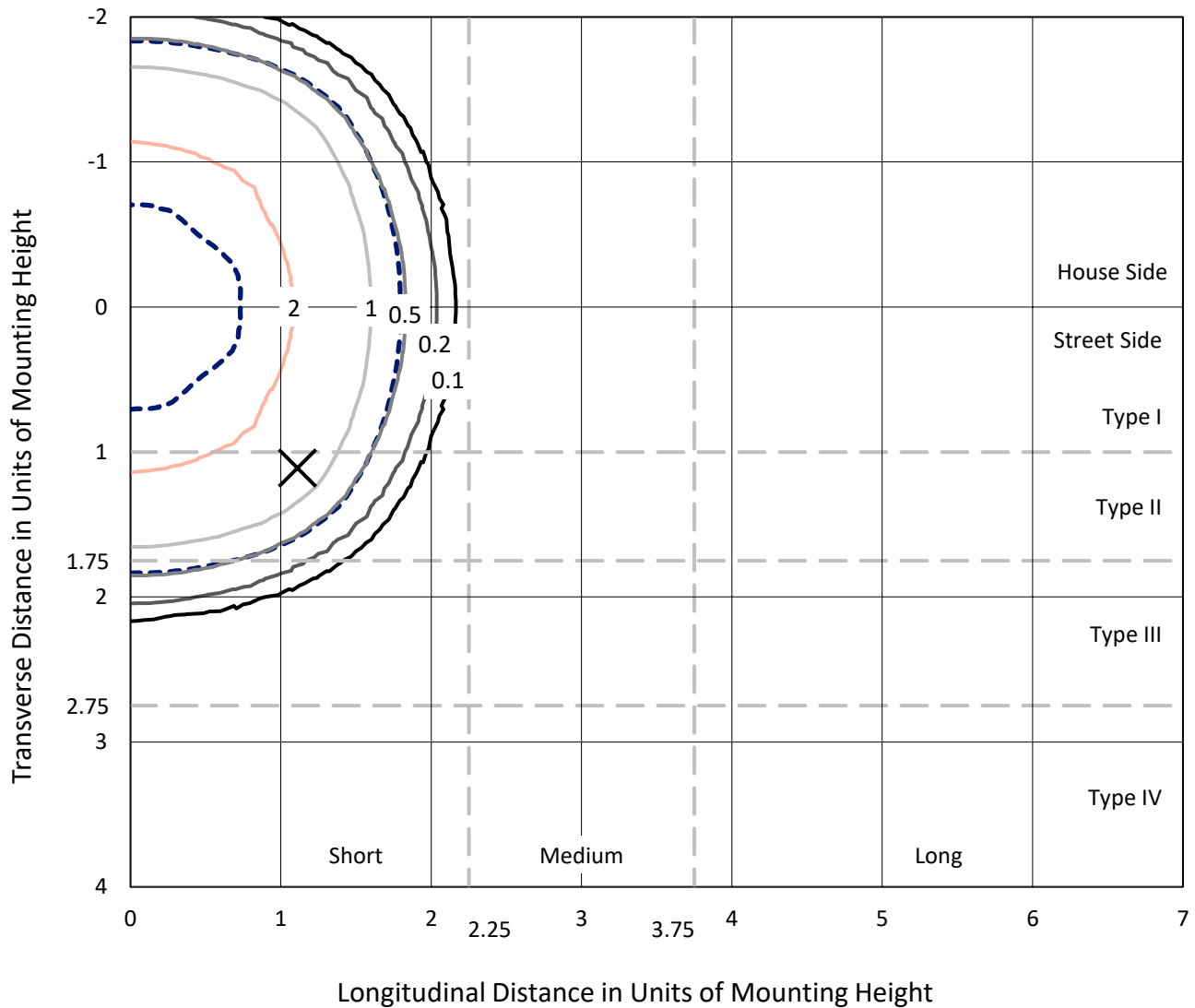


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Iso-Footcandle Lines of Horizontal Illumination

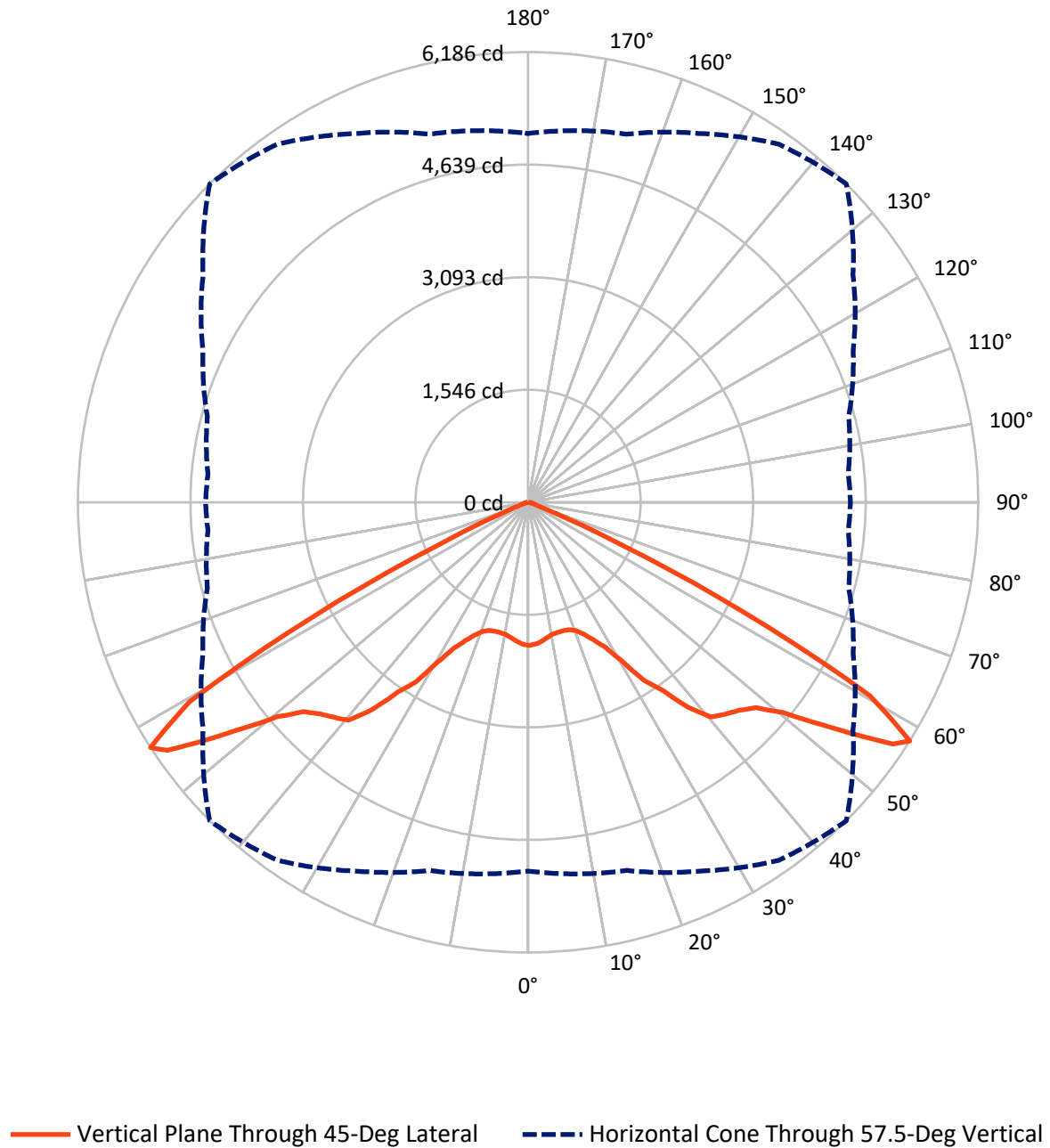
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6342.5	0.0	6342.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6342.5	0.0	6342.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12685.0	0.0	12685.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	1.4
10°-20°	522.6	4.1
20°-30°	964.7	7.6
30°-40°	1897.2	15.0
40°-50°	3090.0	24.4
50°-60°	4406.7	34.7
60°-70°	1525.7	12.0
70°-80°	81.8	0.6
80°-90°	15.4	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°	12685.0	100.0
0°-180°	12685.0	100.0

Coefficient of Utilization



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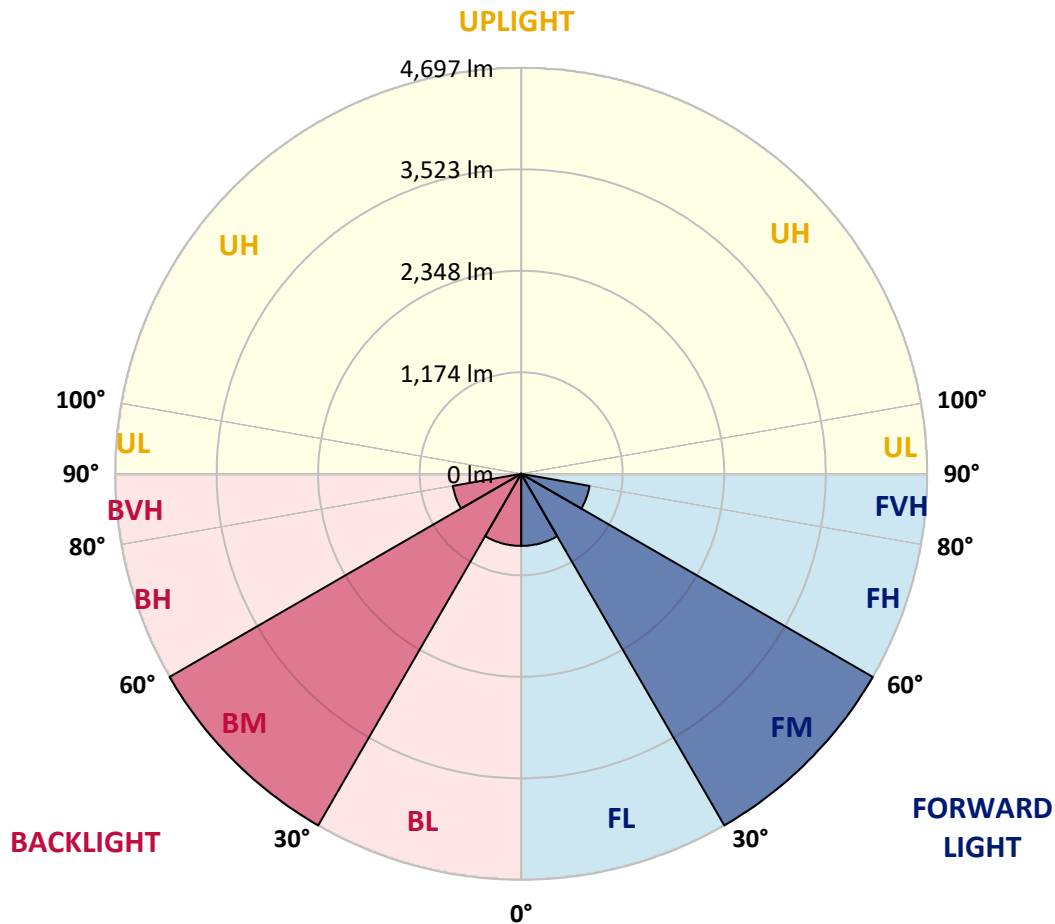
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	834.1	6.6			
FM	(30°-60°)	4697.0	37.0			
FH	(60°-80°)	803.8	6.3			G1/1800
FVH	(80°-90°)	7.7	0.1			G0/10
BL	(0°-30°)	834.1	6.6	B2/1000		
BM	(30°-60°)	4697.0	37.0	B3/5000		
BH	(60°-80°)	803.8	6.3	B2/1000		G1/1800
BVH	(80°-90°)	7.7	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-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6	1967.6
2.5°	1962.3	1972.9	1959.6	1954.4	1951.7	1951.7	1943.8	1943.8	1941.1	1943.8	1933.2
5°	1930.6	1941.1	1941.1	1938.5	1922.6	1920.0	1912.0	1906.8	1909.4	1898.8	1906.8
7.5°	1898.8	1906.8	1896.2	1893.5	1888.2	1877.7	1875.0	1851.2	1853.9	1853.9	1859.1
10°	1893.5	1890.9	1875.0	1861.8	1845.9	1843.3	1835.3	1830.1	1830.1	1827.4	1835.3
12.5°	1893.5	1880.3	1877.7	1848.6	1822.1	1832.7	1811.5	1798.3	1816.8	1822.1	1832.7
15°	1890.9	1904.1	1859.1	1845.9	1827.4	1830.1	1811.5	1798.3	1808.9	1814.2	1822.1
17.5°	1906.8	1898.8	1885.6	1859.1	1851.2	1840.6	1816.8	1806.3	1806.3	1819.5	1822.1
20°	1949.1	1927.9	1901.5	1888.2	1896.2	1882.9	1853.9	1814.2	1824.8	1835.3	1843.3
22.5°	1988.7	1972.9	1954.4	1946.4	1991.4	1970.2	1920.0	1875.0	1859.1	1877.7	1890.9
25°	2065.4	2065.4	2031.0	2041.6	2091.9	2094.5	2036.3	1957.0	1946.4	1954.4	1959.6
27.5°	2221.5	2229.4	2200.3	2210.9	2232.0	2250.5	2200.3	2134.2	2110.4	2107.7	2115.7
30°	2390.7	2406.6	2403.9	2448.9	2509.7	2520.3	2446.2	2337.8	2266.4	2253.2	2263.8
32.5°	2612.9	2620.8	2615.5	2668.4	2832.4	2909.1	2716.0	2562.6	2467.4	2491.2	2467.4
35°	3030.7	3022.8	2964.6	2975.2	3110.0	3165.6	2980.5	2882.6	2837.6	2885.2	2874.7
37.5°	3390.4	3361.3	3313.7	3382.4	3522.6	3572.8	3379.8	3207.9	3125.9	3205.2	3239.6
40°	3694.5	3620.4	3554.3	3623.1	3810.9	3879.6	3596.6	3456.5	3424.7	3482.9	3557.0
42.5°	3951.0	3903.4	3816.1	3821.4	3945.7	3977.5	3750.0	3668.0	3636.3	3728.9	3765.9
45°	4133.5	4088.5	4006.6	4001.3	4096.5	4075.3	3871.7	3816.1	3834.7	3895.5	3914.0
47.5°	4226.1	4249.9	4202.3	4215.5	4265.7	4215.5	4054.2	4054.2	4011.8	4048.9	4030.4
50°	4493.2	4419.1	4479.9	4479.9	4532.8	4538.1	4376.8	4318.6	4204.9	4141.4	4141.4
52.5°	4805.2	4810.5	4834.3	4921.6	5011.5	5088.2	4858.1	4609.5	4419.1	4337.1	4326.6
55°	5061.7	5114.6	5209.8	5373.8	5633.0	5738.8	5342.1	4897.8	4665.1	4538.1	4511.7
56°	5201.9	5151.7	5315.6	5540.4	5878.9	6016.4	5421.4	4956.0	4699.4	4556.6	4554.0
57.5°	5067.0	5122.6	5236.3	5590.7	6005.9	6185.7	5450.5	4929.5	4561.9	4416.5	4429.7
60°	4001.3	4054.2	4207.5	4604.2	5254.8	5395.0	4612.2	4064.7	3736.8	3527.9	3530.5
62.5°	2263.8	2303.4	2422.4	2790.0	3194.7	3329.5	2874.7	2509.7	2282.3	2165.9	2128.9
65°	833.0	817.2	835.7	1023.5	1272.0	1385.8	1195.4	1010.2	891.2	848.9	833.0
67.5°	312.1	288.3	269.7	288.3	362.3	383.5	351.7	293.5	275.0	283.0	288.3
70°	193.1	182.5	145.5	137.5	134.9	132.2	140.2	148.1	169.3	198.3	203.6
72.5°	134.9	126.9	103.1	97.8	92.6	89.9	103.1	113.7	132.2	153.4	156.0
75°	52.9	55.5	52.9	58.2	60.8	63.5	74.0	82.0	89.9	89.9	87.3
77.5°	10.6	10.6	15.9	21.2	26.4	34.4	50.2	58.2	60.8	58.2	50.2
80°	0.0	0.0	5.3	10.6	21.2	29.1	45.0	50.2	55.5	50.2	39.7
82.5°	0.0	0.0	5.3	13.2	21.2	26.4	42.3	52.9	60.8	55.5	42.3
85°	0.0	0.0	5.3	10.6	15.9	18.5	18.5	13.2	13.2	7.9	5.3
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)