

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: P648029

Luminaire Tested: **GALN-SA7A-835-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648029
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-SA7A-835-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA 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: 13009.5 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

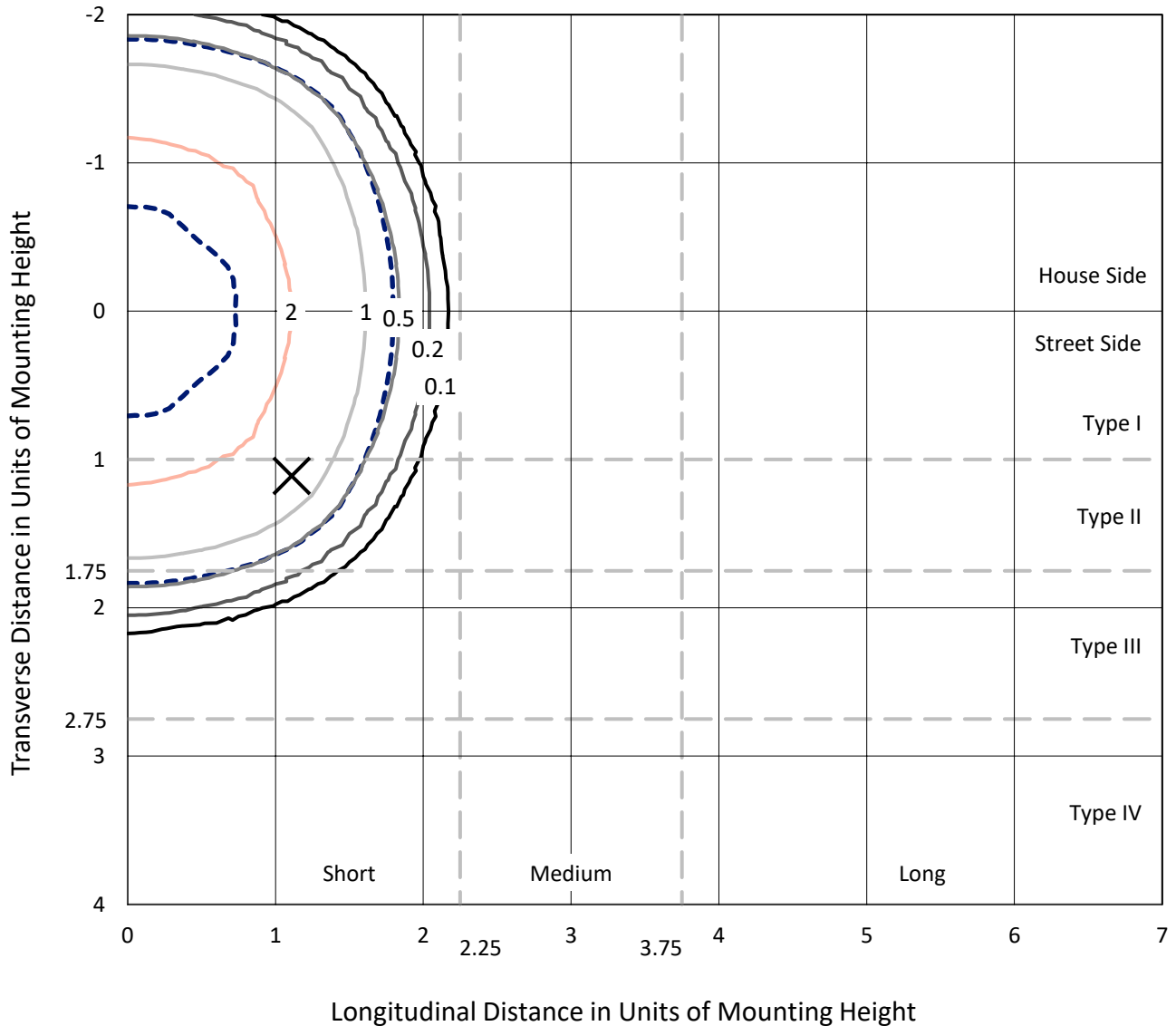
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

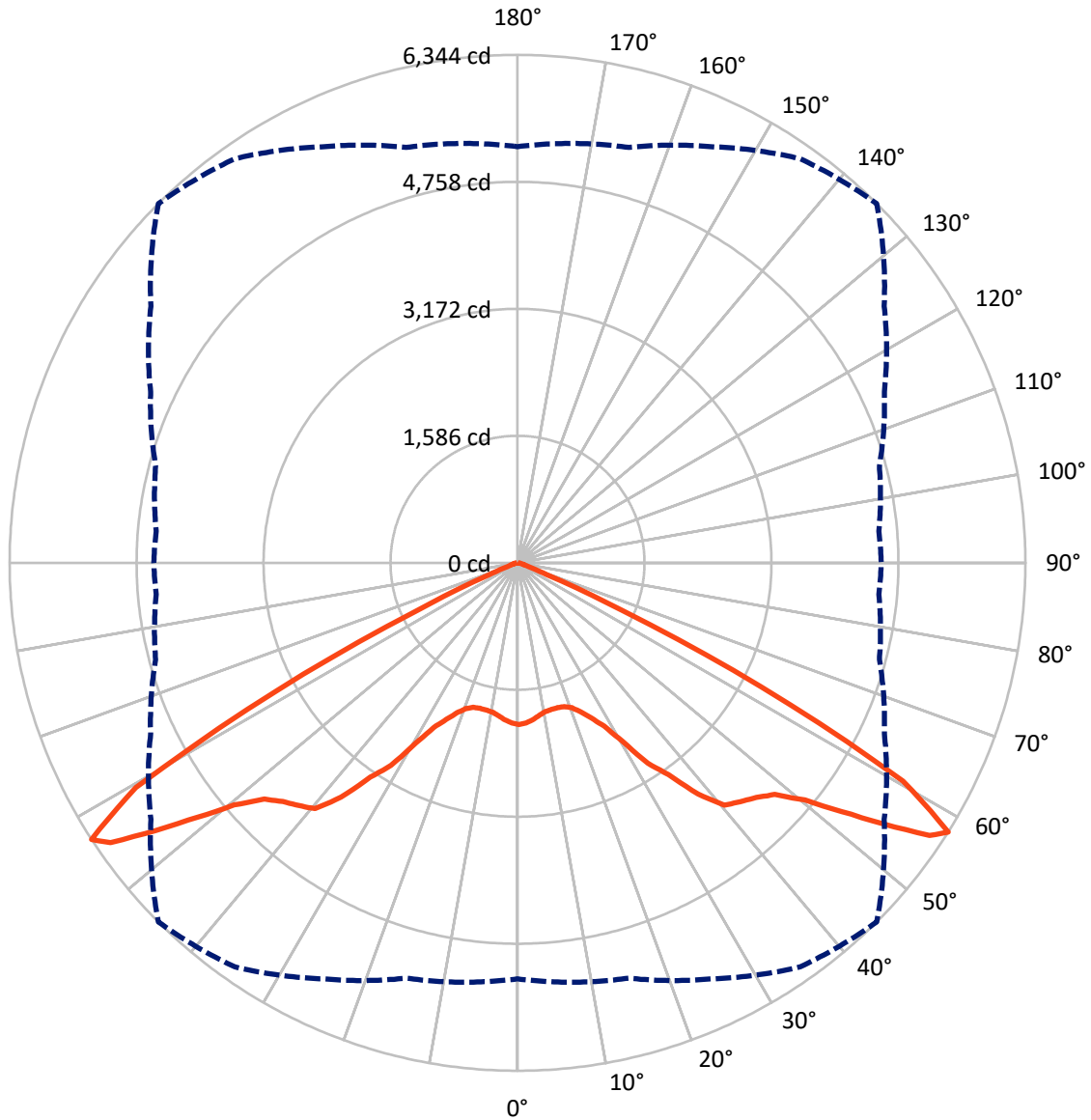
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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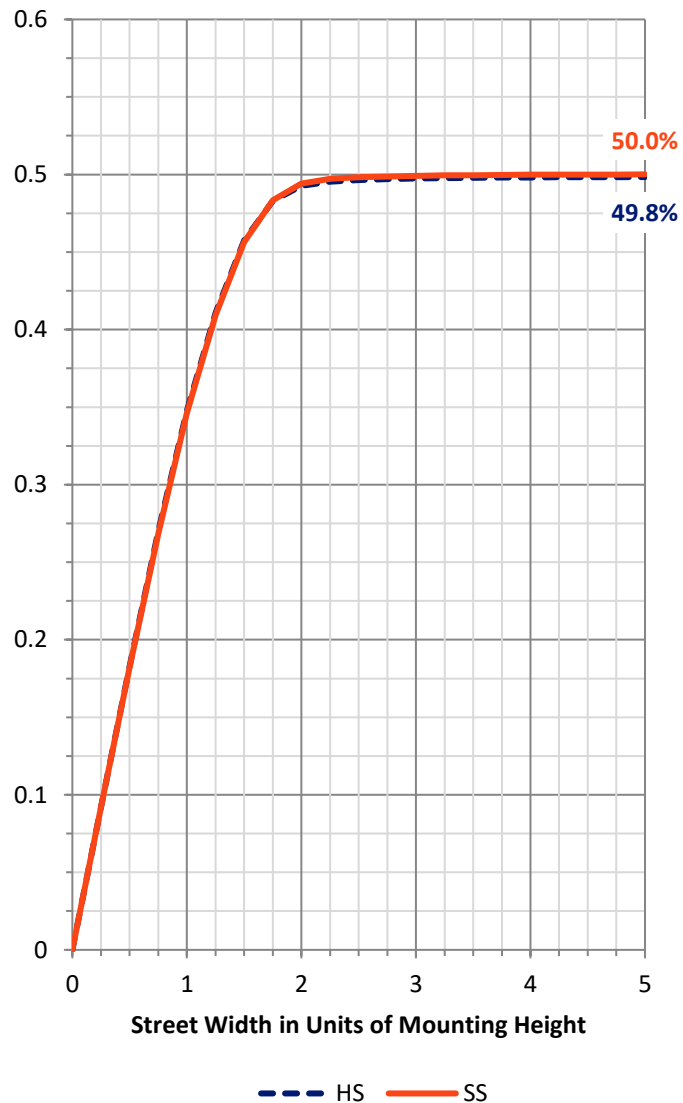
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6504.8	0.0	6504.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6504.8	0.0	6504.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	13009.5	0.0	13009.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	1.4
10°-20°	536.0	4.1
20°-30°	989.4	7.6
30°-40°	1945.7	15.0
40°-50°	3169.1	24.4
50°-60°	4519.5	34.7
60°-70°	1564.8	12.0
70°-80°	83.9	0.6
80°-90°	15.8	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°	13009.5	100.0
0°-180°	13009.5	100.0

Coefficient of Utilization



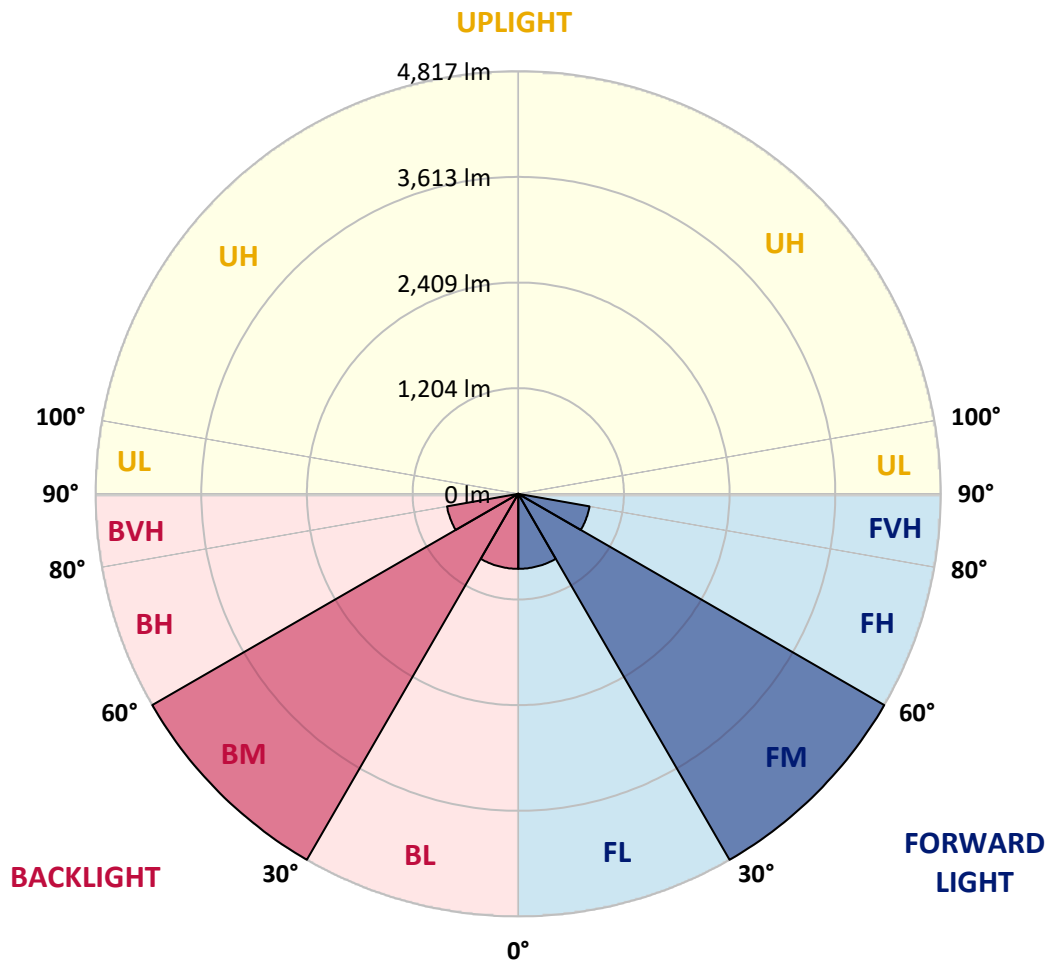
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	855.4	6.6			
FM (30°-60°)	4817.1	37.0			
FH (60°-80°)	824.4	6.3			G1/1800
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	855.4	6.6	B2/1000		
BM (30°-60°)	4817.1	37.0	B3/5000		
BH (60°-80°)	824.4	6.3	B2/1000		G1/1800
BVH (80°-90°)	7.9	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°	2017.9	2017.9	2017.9	2017.9	2017.9	2017.9	2017.9	2017.9	2017.9	2017.9	2017.9
2.5°	2012.5	2023.4	2009.8	2004.3	2001.7	2001.7	1993.5	1993.5	1990.8	1993.5	1982.6
5°	1980.0	1990.8	1990.8	1988.1	1971.8	1969.1	1960.9	1955.5	1958.3	1947.4	1955.5
7.5°	1947.4	1955.5	1944.7	1942.0	1936.5	1925.7	1923.0	1898.5	1901.3	1901.3	1906.7
10°	1942.0	1939.3	1923.0	1909.4	1893.1	1890.5	1882.3	1876.9	1876.9	1874.2	1882.3
12.5°	1942.0	1928.5	1925.7	1895.9	1868.7	1879.6	1857.9	1844.4	1863.3	1868.7	1879.6
15°	1939.3	1952.8	1906.7	1893.1	1874.2	1876.9	1857.9	1844.4	1855.2	1860.6	1868.7
17.5°	1955.5	1947.4	1933.9	1906.7	1898.5	1887.7	1863.3	1852.5	1852.5	1866.0	1868.7
20°	1998.9	1977.2	1950.1	1936.5	1944.7	1931.1	1901.3	1860.6	1871.4	1882.3	1890.5
22.5°	2039.6	2023.4	2004.3	1996.2	2042.3	2020.6	1969.1	1923.0	1906.7	1925.7	1939.3
25°	2118.2	2118.2	2083.0	2093.9	2145.4	2148.1	2088.4	2007.1	1996.2	2004.3	2009.8
27.5°	2278.3	2286.4	2256.6	2267.4	2289.2	2308.1	2256.6	2188.8	2164.4	2161.6	2169.8
30°	2451.9	2468.2	2465.4	2511.6	2574.0	2584.8	2508.8	2397.6	2324.4	2310.9	2321.7
32.5°	2679.7	2687.9	2682.4	2736.7	2904.9	2983.5	2785.5	2628.1	2530.5	2554.9	2530.5
35°	3108.3	3100.1	3040.5	3051.3	3189.6	3246.6	3056.7	2956.4	2910.3	2959.0	2948.2
37.5°	3477.1	3447.2	3398.5	3469.0	3612.7	3664.3	3466.3	3289.9	3205.9	3287.3	3322.5
40°	3789.0	3713.1	3645.3	3715.8	3908.3	3978.9	3688.6	3545.0	3512.4	3572.0	3648.0
42.5°	4052.1	4003.3	3913.7	3919.2	4046.7	4079.2	3845.9	3761.9	3729.4	3824.3	3862.2
45°	4239.2	4193.1	4109.0	4103.6	4201.3	4179.6	3970.7	3913.7	3932.8	3995.2	4014.1
47.5°	4334.2	4358.6	4309.8	4323.3	4374.9	4323.3	4157.9	4157.9	4114.5	4152.5	4133.5
50°	4608.1	4532.2	4594.6	4594.6	4648.8	4654.2	4488.8	4429.1	4312.5	4247.4	4247.4
52.5°	4928.2	4933.6	4958.0	5047.5	5139.7	5218.4	4982.4	4727.4	4532.2	4448.1	4437.3
55°	5191.3	5245.5	5343.1	5511.3	5777.1	5885.6	5478.7	5023.1	4784.4	4654.2	4627.1
56°	5335.0	5283.4	5451.6	5682.2	6029.3	6170.4	5560.1	5082.8	4819.7	4673.2	4670.5
57.5°	5196.7	5253.6	5370.3	5733.7	6159.5	6343.9	5590.0	5055.7	4678.7	4529.5	4543.0
60°	4103.6	4157.9	4315.2	4722.0	5389.2	5533.0	4730.2	4168.8	3832.4	3618.2	3620.8
62.5°	2321.7	2362.4	2484.5	2861.4	3276.4	3414.7	2948.2	2574.0	2340.7	2221.4	2183.4
65°	854.3	838.1	857.1	1049.6	1304.6	1421.2	1225.9	1036.1	914.0	870.6	854.3
67.5°	320.0	295.7	276.6	295.7	371.6	393.3	360.7	301.1	282.0	290.2	295.7
70°	198.0	187.1	149.2	141.0	138.4	135.6	143.8	151.9	173.6	203.4	208.8
72.5°	138.4	130.2	105.8	100.4	94.9	92.2	105.8	116.6	135.6	157.3	160.0
75°	54.3	56.9	54.3	59.7	62.4	65.1	76.0	84.1	92.2	92.2	89.5
77.5°	10.9	10.9	16.3	21.7	27.1	35.2	51.5	59.7	62.4	59.7	51.5
80°	0.0	0.0	5.4	10.9	21.7	29.8	46.1	51.5	56.9	51.5	40.7
82.5°	0.0	0.0	5.4	13.5	21.7	27.1	43.4	54.3	62.4	56.9	43.4
85°	0.0	0.0	5.4	10.9	16.3	18.9	18.9	13.5	13.5	8.1	5.4
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)