

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: P383046

Luminaire Tested: **GLEON-SA4A-735-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4A-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18395.3 lumens
Efficiency: N/A
Efficacy: 142.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

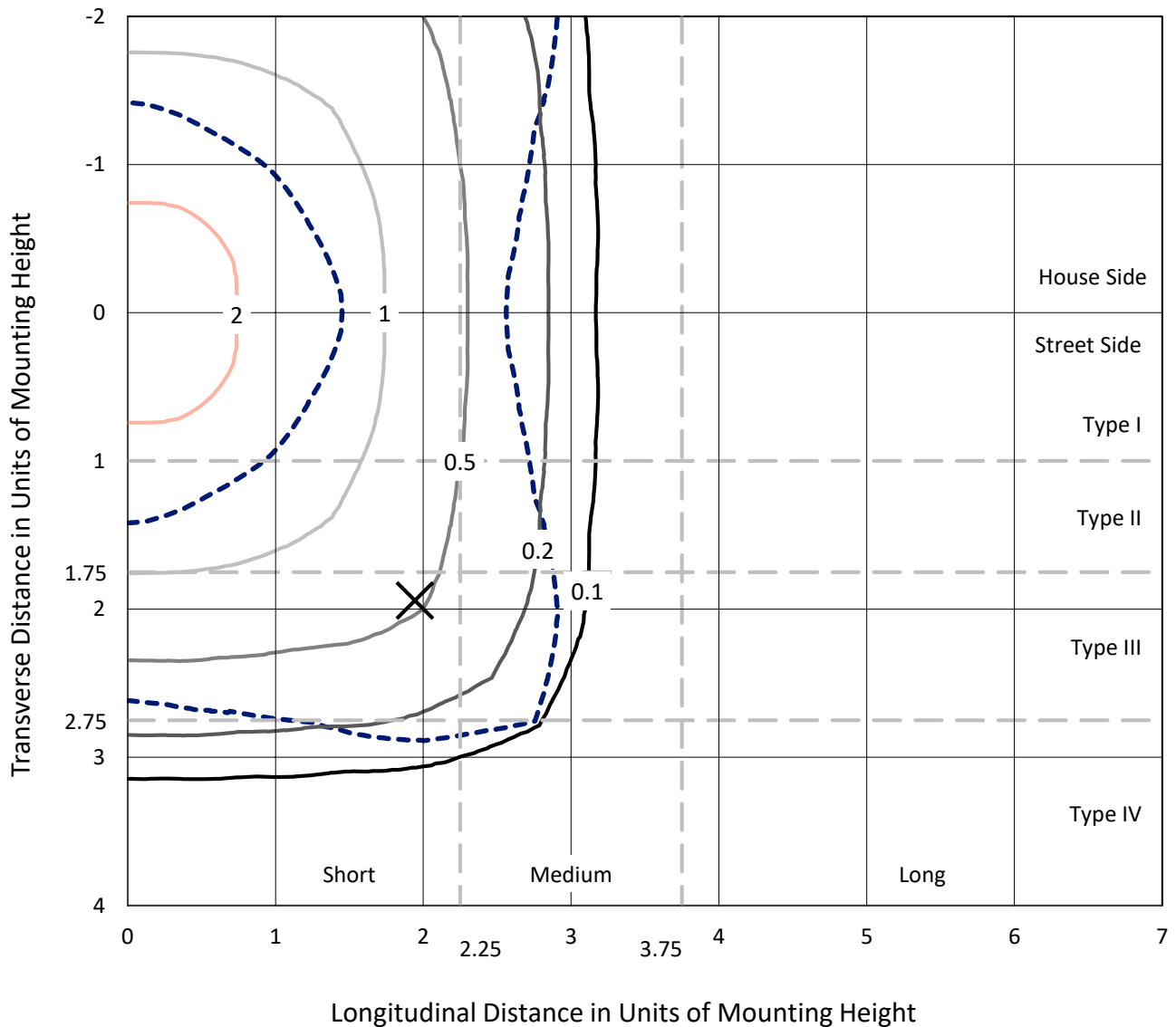
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

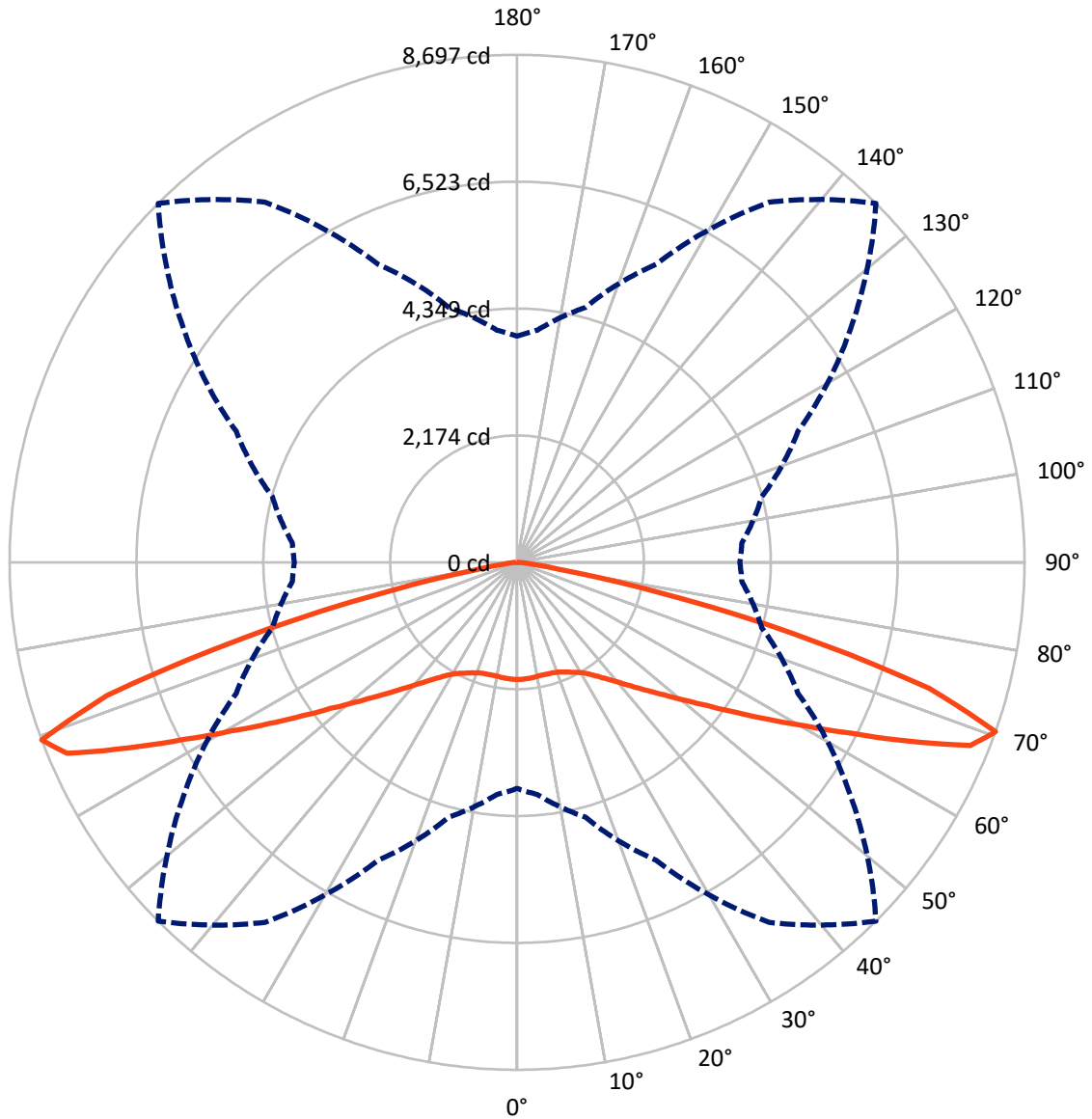
✕ Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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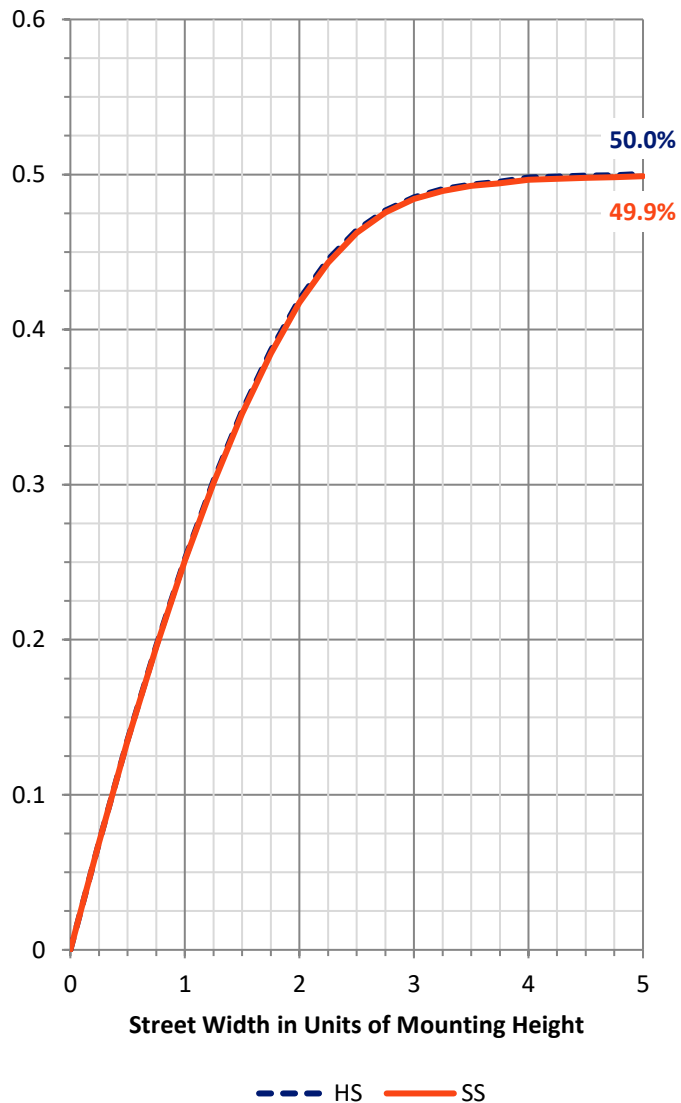
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9197.6	0.0	9197.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9197.6	0.0	9197.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	18395.3	0.0	18395.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.3	1.0
10°-20°	558.6	3.0
20°-30°	950.9	5.2
30°-40°	1508.2	8.2
40°-50°	2454.2	13.3
50°-60°	4046.6	22.0
60°-70°	5940.6	32.3
70°-80°	2626.9	14.3
80°-90°	119.0	0.6
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°	18395.3	100.0
0°-180°	18395.3	100.0

Coefficient of Utilization



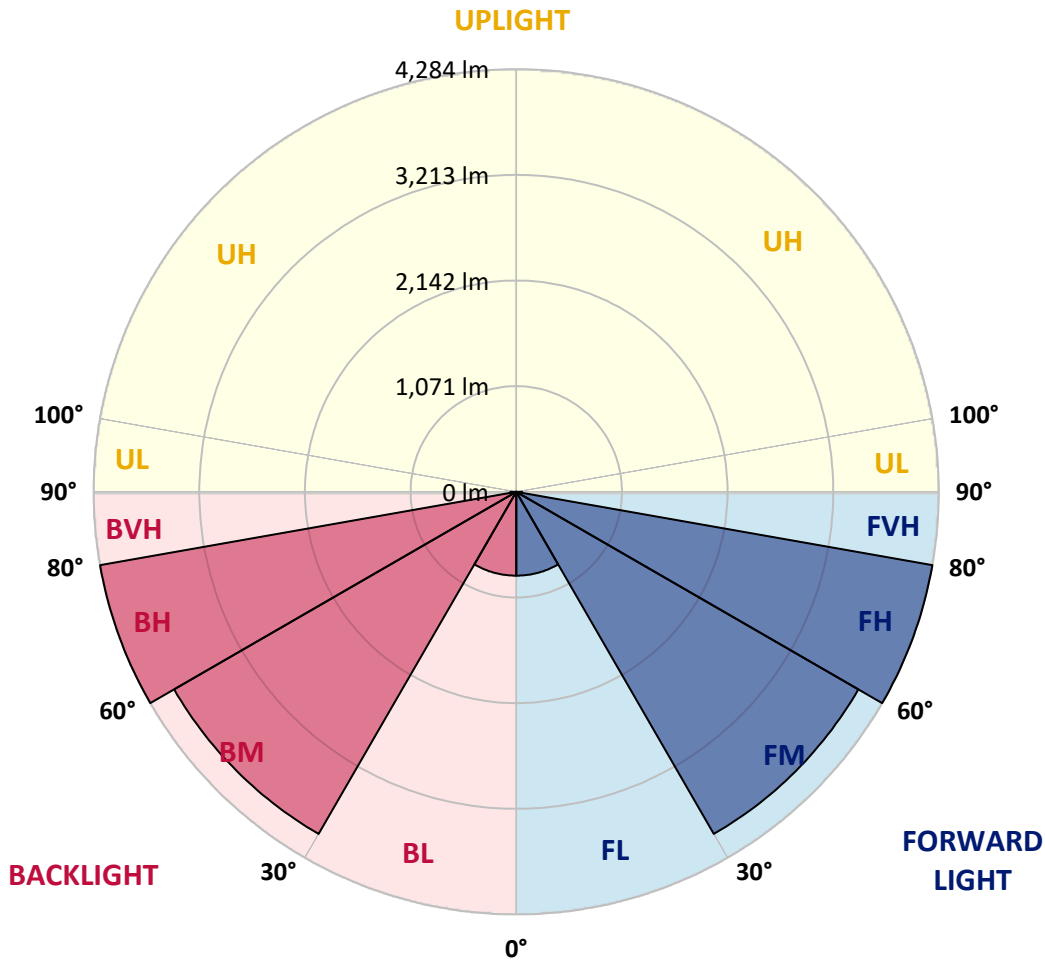
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	849.9	4.6			
FM (30°-60°)	4004.5	21.8			
FH (60°-80°)	4283.7	23.3			G2/5000
FVH (80°-90°)	59.5	0.3			G1/100
BL (0°-30°)	849.9	4.6	B2/1000		
BM (30°-60°)	4004.5	21.8	B3/5000		
BH (60°-80°)	4283.7	23.3	B4/5000		G2/5000
BVH (80°-90°)	59.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1	2009.1
2.5°	2006.0	2004.2	2008.4	2007.9	2004.2	2004.8	2004.8	2006.6	2006.6	2005.4	2005.4
5°	1998.7	1997.5	2002.4	2002.4	1998.7	1999.9	2001.2	2002.9	2002.4	2001.2	2000.5
7.5°	1989.6	1988.9	1993.8	1993.8	1991.4	1992.6	1991.4	1992.0	1990.8	1989.6	1987.7
10°	1974.3	1975.5	1979.8	1981.0	1981.0	1981.7	1980.5	1977.4	1975.5	1973.8	1971.9
12.5°	1960.3	1959.7	1965.8	1968.8	1973.8	1979.3	1975.5	1967.1	1963.4	1959.7	1958.5
15°	1951.2	1951.8	1957.9	1963.4	1971.9	1983.5	1979.3	1965.8	1958.5	1954.3	1953.1
17.5°	1949.4	1950.6	1958.5	1968.3	1977.4	1990.2	1987.7	1974.3	1962.2	1954.3	1952.4
20°	1953.6	1954.3	1966.4	1980.5	1996.3	2008.4	2002.9	1988.4	1971.9	1959.7	1956.7
22.5°	1961.6	1964.0	1979.3	2001.2	2025.5	2042.0	2035.2	2010.3	1984.7	1969.5	1965.2
25°	1986.5	1987.2	2007.9	2037.7	2066.9	2085.7	2077.8	2042.5	2009.6	1992.6	1987.2
27.5°	2038.2	2040.1	2060.8	2095.5	2120.5	2132.6	2127.7	2099.1	2071.1	2052.9	2054.7
30°	2113.1	2115.5	2138.7	2177.1	2192.3	2195.4	2194.2	2180.8	2155.1	2130.8	2132.6
32.5°	2204.5	2205.7	2236.7	2271.5	2283.6	2286.0	2283.6	2271.5	2241.0	2208.1	2209.9
35°	2322.0	2325.6	2355.4	2389.0	2398.6	2403.6	2399.3	2383.5	2351.8	2319.6	2318.3
37.5°	2466.8	2467.5	2498.5	2533.3	2545.4	2546.7	2541.7	2531.4	2491.8	2462.6	2460.8
40°	2634.9	2637.3	2673.8	2711.0	2715.8	2710.4	2717.0	2711.0	2670.2	2636.7	2642.2
42.5°	2839.5	2844.9	2888.7	2925.3	2911.3	2908.3	2912.5	2914.3	2881.5	2840.7	2837.0
45°	3077.5	3082.4	3137.2	3166.4	3157.3	3137.2	3145.6	3160.3	3114.6	3064.1	3069.0
47.5°	3349.0	3361.2	3419.6	3447.0	3424.6	3397.1	3413.6	3435.5	3381.9	3319.2	3316.1
50°	3651.0	3666.2	3744.2	3782.5	3760.0	3709.4	3736.8	3751.4	3674.1	3593.2	3586.5
52.5°	3973.1	3988.2	4086.3	4165.4	4150.8	4072.3	4110.6	4095.5	4006.5	3897.6	3889.0
55°	4337.8	4343.8	4449.7	4577.6	4592.2	4534.4	4531.9	4507.0	4375.5	4249.4	4243.4
57.5°	4712.7	4717.0	4854.0	5004.9	5073.8	5073.8	5005.6	4952.6	4777.9	4631.7	4616.6
60°	5117.6	5132.8	5284.4	5489.6	5650.3	5697.8	5577.3	5433.0	5243.0	5064.6	5046.9
62.5°	5478.0	5495.7	5727.6	6033.3	6291.4	6464.3	6169.6	5934.6	5588.8	5302.6	5269.2
65°	5523.7	5571.1	5909.1	6462.4	7040.2	7385.4	6820.4	6241.5	5611.4	5213.8	5179.7
67.5°	5044.5	5124.9	5581.5	6443.0	7636.8	8377.8	7236.3	6066.1	5207.1	4767.6	4729.7
70°	3876.3	3993.2	4519.8	5635.7	7533.9	8697.4	6975.7	5310.6	4341.4	3868.3	3815.3
72.5°	2126.5	2174.6	2648.3	3859.2	6040.0	7390.9	5818.4	3926.8	2879.0	2342.7	2253.8
75°	674.5	691.6	932.7	1579.3	3416.6	4895.4	3696.0	1927.5	1061.1	782.3	773.2
77.5°	299.5	301.4	337.3	460.8	1176.8	2480.2	1413.6	524.8	361.6	316.0	326.3
80°	189.4	189.4	208.9	228.3	320.3	720.2	382.3	249.7	213.0	197.9	202.1
82.5°	90.7	100.4	135.7	146.1	176.0	242.3	196.0	163.1	142.4	105.9	98.7
85°	59.6	49.9	85.8	96.8	102.3	116.3	113.8	107.8	93.2	53.0	59.1
87.5°	26.8	25.5	44.4	40.8	38.4	29.3	43.9	54.2	52.4	26.2	26.2
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)