

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: P383578

Luminaire Tested: **GLEON-SA8D-735-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383578
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-SA8D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60854.3 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

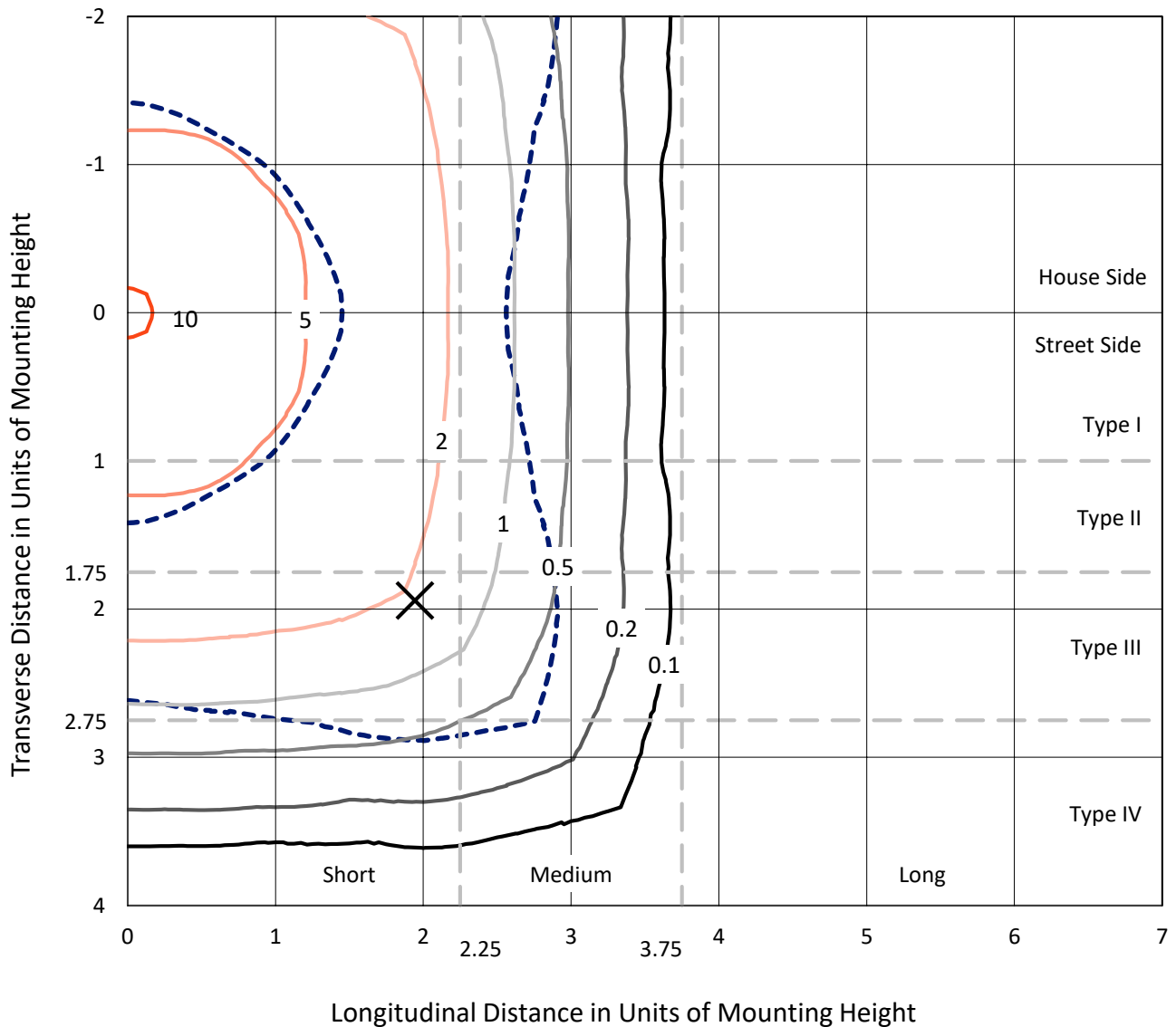
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

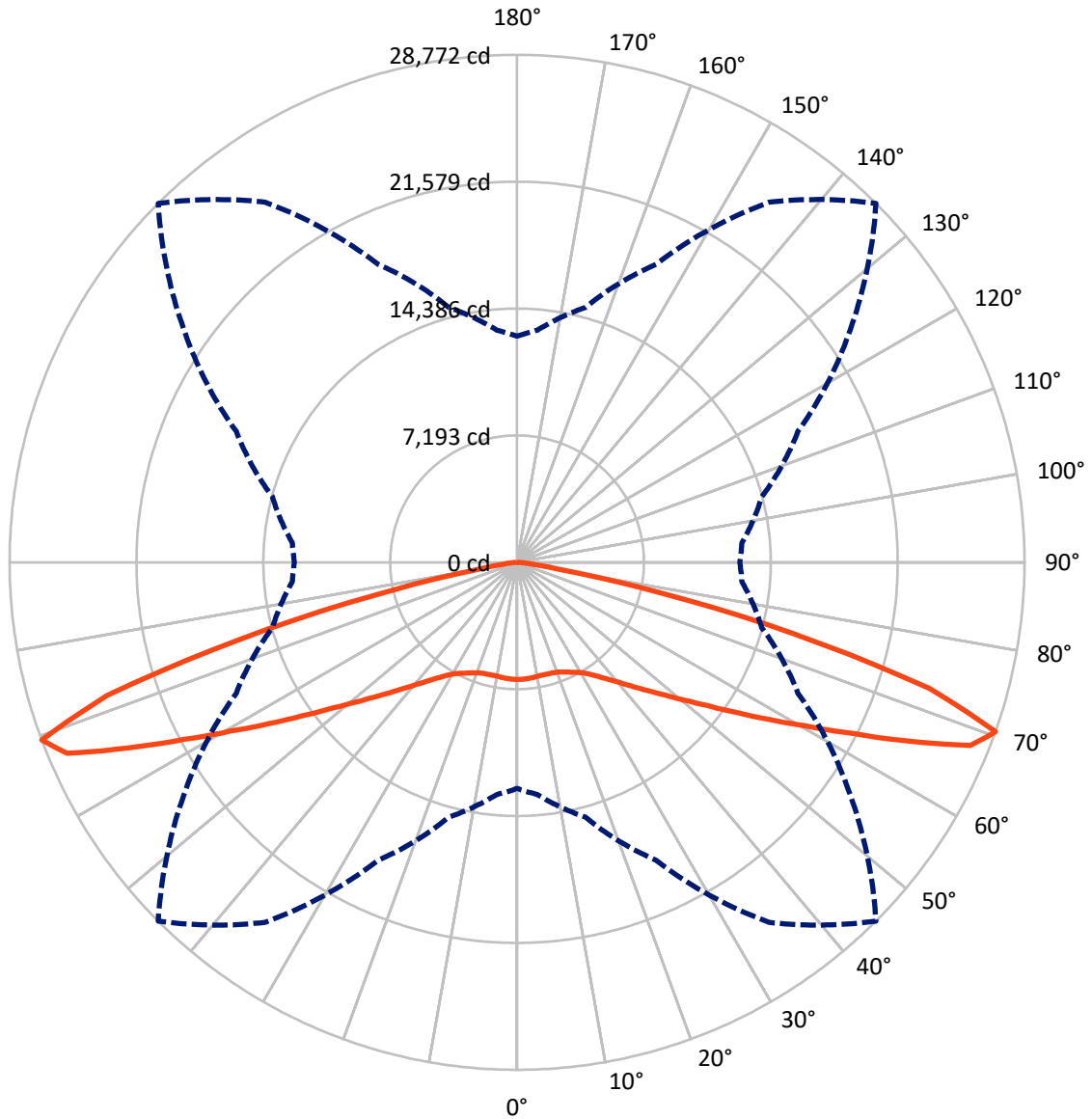
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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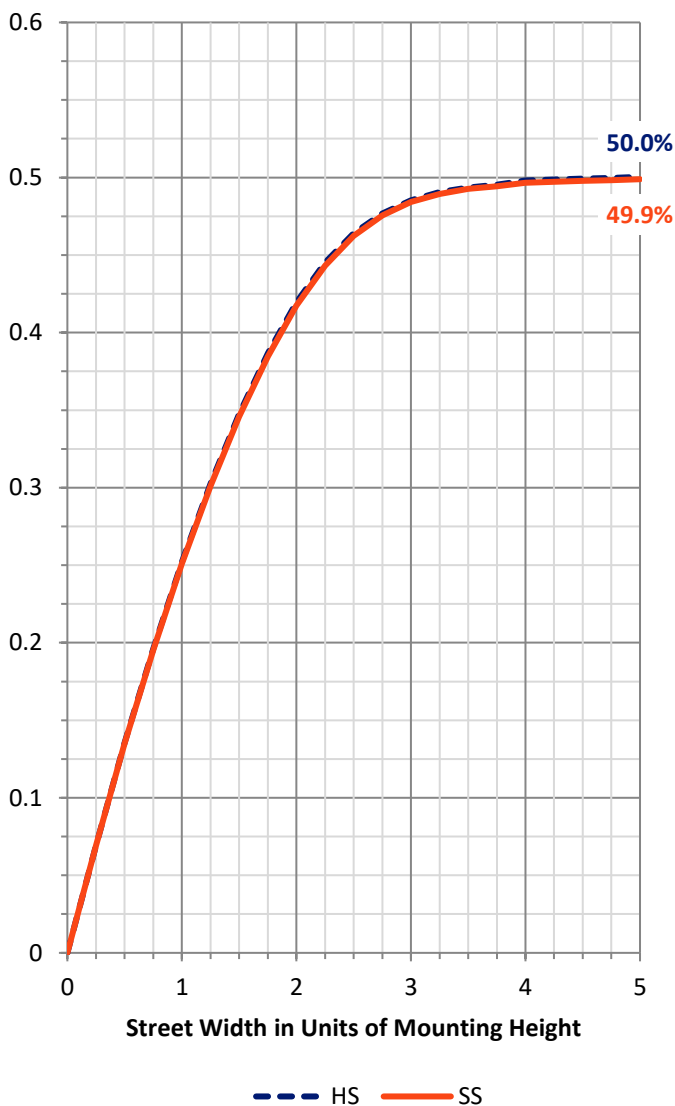
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	30427.1	0.0	30427.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30427.1	0.0	30427.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	60854.3	0.0	60854.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.5	1.0
10°-20°	1848.0	3.0
20°-30°	3145.8	5.2
30°-40°	4989.2	8.2
40°-50°	8119.0	13.3
50°-60°	13386.8	22.0
60°-70°	19652.2	32.3
70°-80°	8690.2	14.3
80°-90°	393.5	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°	60854.3	100.0
0°-180°	60854.3	100.0



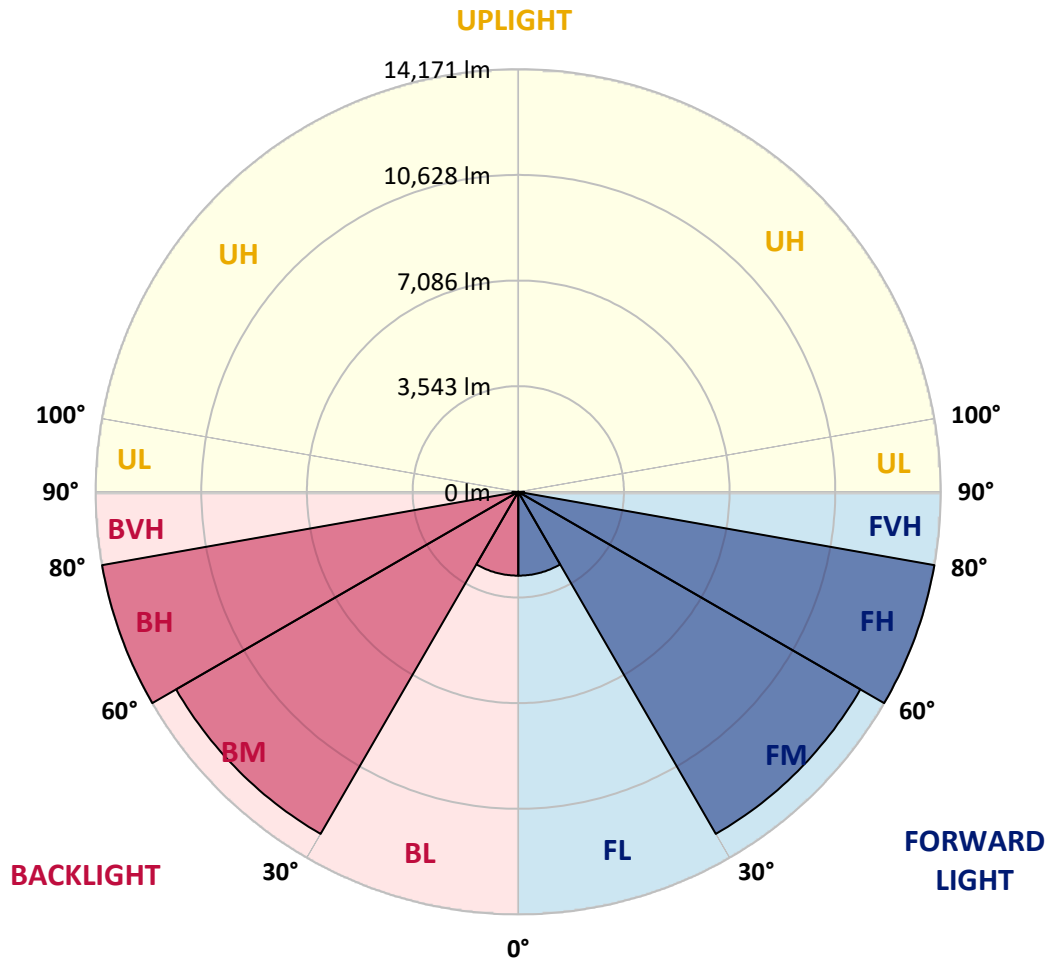
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2811.6	4.6			
FM (30°-60°)	13247.5	21.8			
FH (60°-80°)	14171.2	23.3			G5
FVH (80°-90°)	196.8	0.3			G2/225
BL (0°-30°)	2811.6	4.6	B4/5000		
BM (30°-60°)	13247.5	21.8	B5		
BH (60°-80°)	14171.2	23.3	B5		G5
BVH (80°-90°)	196.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6646.2	6646.2	6646.2	6646.2	6646.2	6646.2	6646.2	6646.2	6646.2	6646.2	6646.2
2.5°	6636.2	6630.1	6644.3	6642.2	6630.1	6632.2	6632.2	6638.2	6638.2	6634.1	6634.1
5°	6612.0	6607.9	6624.0	6624.0	6612.0	6616.0	6620.0	6626.1	6624.0	6620.0	6618.0
7.5°	6581.8	6579.8	6595.9	6595.9	6587.8	6591.8	6587.8	6589.9	6585.9	6581.8	6575.7
10°	6531.5	6535.5	6549.5	6553.6	6553.6	6555.6	6551.6	6541.5	6535.5	6529.4	6523.3
12.5°	6485.2	6483.1	6503.2	6513.3	6529.4	6547.6	6535.5	6507.2	6495.2	6483.1	6479.1
15°	6454.9	6456.9	6477.1	6495.2	6523.3	6561.6	6547.6	6503.2	6479.1	6464.9	6460.9
17.5°	6448.8	6452.9	6479.1	6511.3	6541.5	6583.8	6575.7	6531.5	6491.1	6464.9	6458.9
20°	6463.0	6464.9	6505.3	6551.6	6603.9	6644.3	6626.1	6577.8	6523.3	6483.1	6473.0
22.5°	6489.2	6497.2	6547.6	6620.0	6700.6	6755.0	6732.9	6650.2	6565.6	6515.3	6501.3
25°	6571.7	6573.7	6642.2	6740.9	6837.6	6900.0	6873.8	6757.0	6648.3	6591.8	6573.7
27.5°	6742.9	6749.0	6817.4	6932.2	7014.8	7055.1	7039.0	6944.3	6851.6	6791.3	6797.3
30°	6990.6	6998.7	7075.2	7202.1	7252.5	7262.5	7258.5	7214.2	7129.6	7049.0	7055.1
32.5°	7292.7	7296.7	7399.5	7514.2	7554.6	7562.6	7554.6	7514.2	7413.5	7304.8	7310.9
35°	7681.4	7693.6	7792.2	7903.0	7935.2	7951.3	7937.3	7884.8	7780.1	7673.3	7669.3
37.5°	8160.7	8162.8	8265.5	8380.3	8420.5	8424.6	8408.5	8374.2	8243.4	8146.7	8140.6
40°	8716.7	8724.7	8845.5	8968.4	8984.5	8966.3	8988.5	8968.4	8833.5	8722.6	8740.8
42.5°	9393.4	9411.4	9556.5	9677.3	9631.0	9620.9	9635.0	9641.1	9532.3	9397.4	9385.2
45°	10180.8	10196.9	10378.2	10474.9	10444.7	10378.2	10406.4	10454.8	10303.7	10136.5	10152.7
47.5°	11079.1	11119.3	11312.7	11403.4	11328.8	11238.2	11292.6	11365.1	11187.8	10980.4	10970.3
50°	12078.0	12128.4	12386.1	12513.0	12438.5	12271.4	12362.0	12410.4	12154.6	11886.7	11864.6
52.5°	13143.4	13193.8	13518.1	13779.8	13731.5	13471.8	13598.6	13548.2	13254.2	12893.7	12865.5
55°	14349.8	14370.0	14720.4	15143.3	15191.7	15000.3	14992.3	14909.7	14474.7	14057.8	14037.7
57.5°	15590.5	15604.5	16057.7	16557.1	16784.7	16784.7	16559.2	16384.0	15805.9	15322.6	15272.3
60°	16929.8	16980.2	17481.6	18160.3	18692.1	18849.1	18450.3	17973.0	17344.7	16754.5	16696.1
62.5°	18122.0	18180.5	18947.8	19958.9	20812.8	21384.8	20410.0	19632.6	18488.6	17542.1	17431.3
65°	18273.1	18430.2	19548.0	21378.7	23290.0	24432.0	22562.9	20647.7	18563.1	17248.0	17135.2
67.5°	16688.1	16954.0	18464.5	21314.3	25263.8	27714.8	23938.5	20067.6	17225.8	15771.8	15646.8
70°	12823.2	13209.9	14952.0	18643.7	24923.4	28772.2	23076.6	17568.2	14361.9	12797.0	12621.8
72.5°	7035.0	7194.1	8760.9	12766.8	19981.0	24450.1	19247.9	12990.3	9524.2	7749.9	7455.8
75°	2231.5	2287.9	3085.5	5224.3	11302.7	16194.7	12227.0	6376.4	3510.4	2588.0	2557.8
77.5°	990.9	996.9	1115.8	1524.6	3893.1	8205.1	4676.6	1736.0	1196.3	1045.3	1079.5
80°	626.4	626.4	690.8	755.3	1059.4	2382.6	1264.8	825.7	704.9	654.6	668.7
82.5°	300.1	332.3	449.1	483.4	582.0	801.6	648.5	539.7	471.3	350.4	326.2
85°	197.4	165.2	283.9	320.3	338.3	384.6	376.6	356.5	308.2	175.2	195.3
87.5°	88.6	84.6	147.0	135.0	126.9	96.7	145.0	179.2	173.2	86.6	86.6
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)