

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: P383242

Luminaire Tested: **GLEON-SA5D-735-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383242
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-SA5D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 37950.3 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

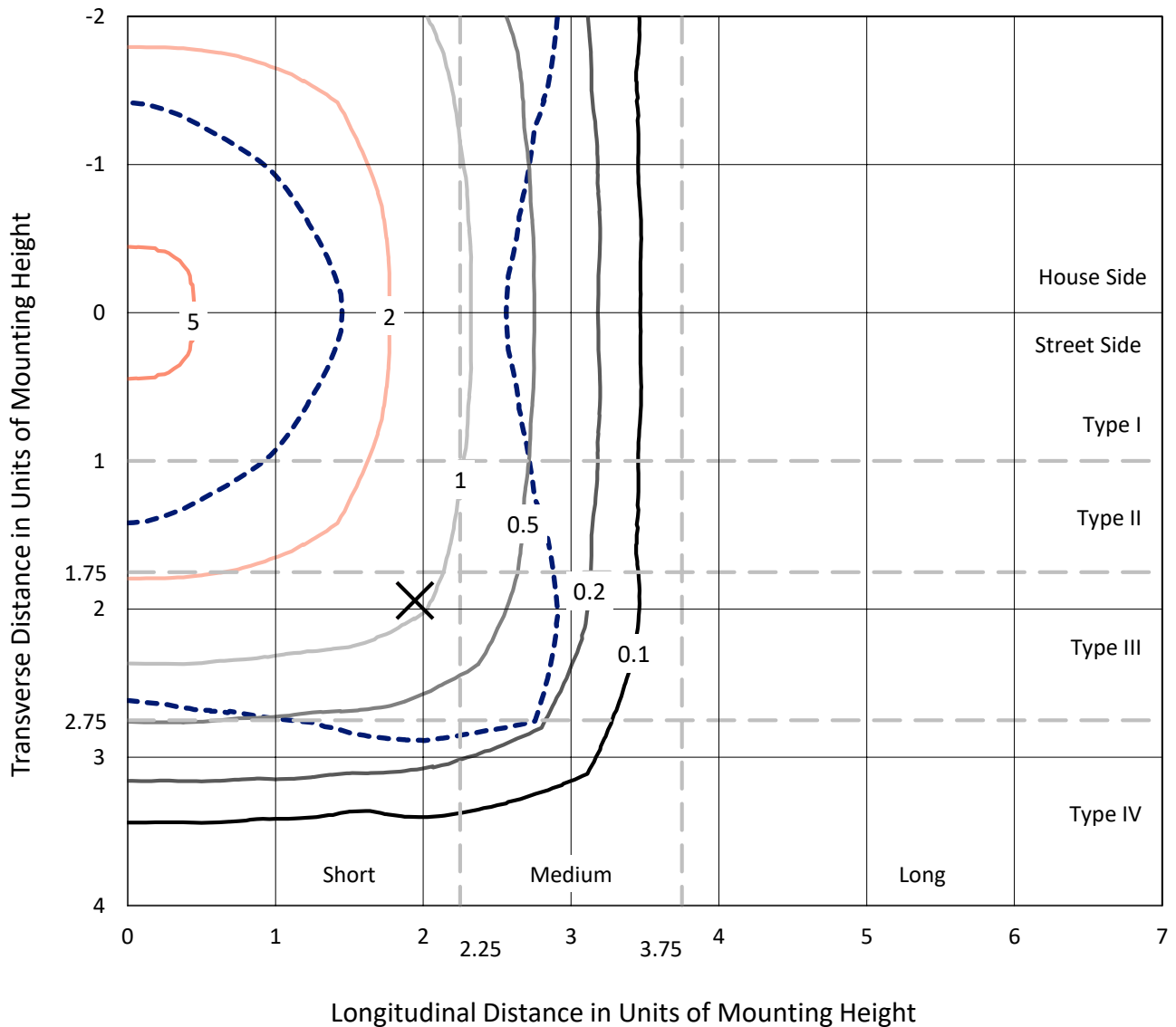
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

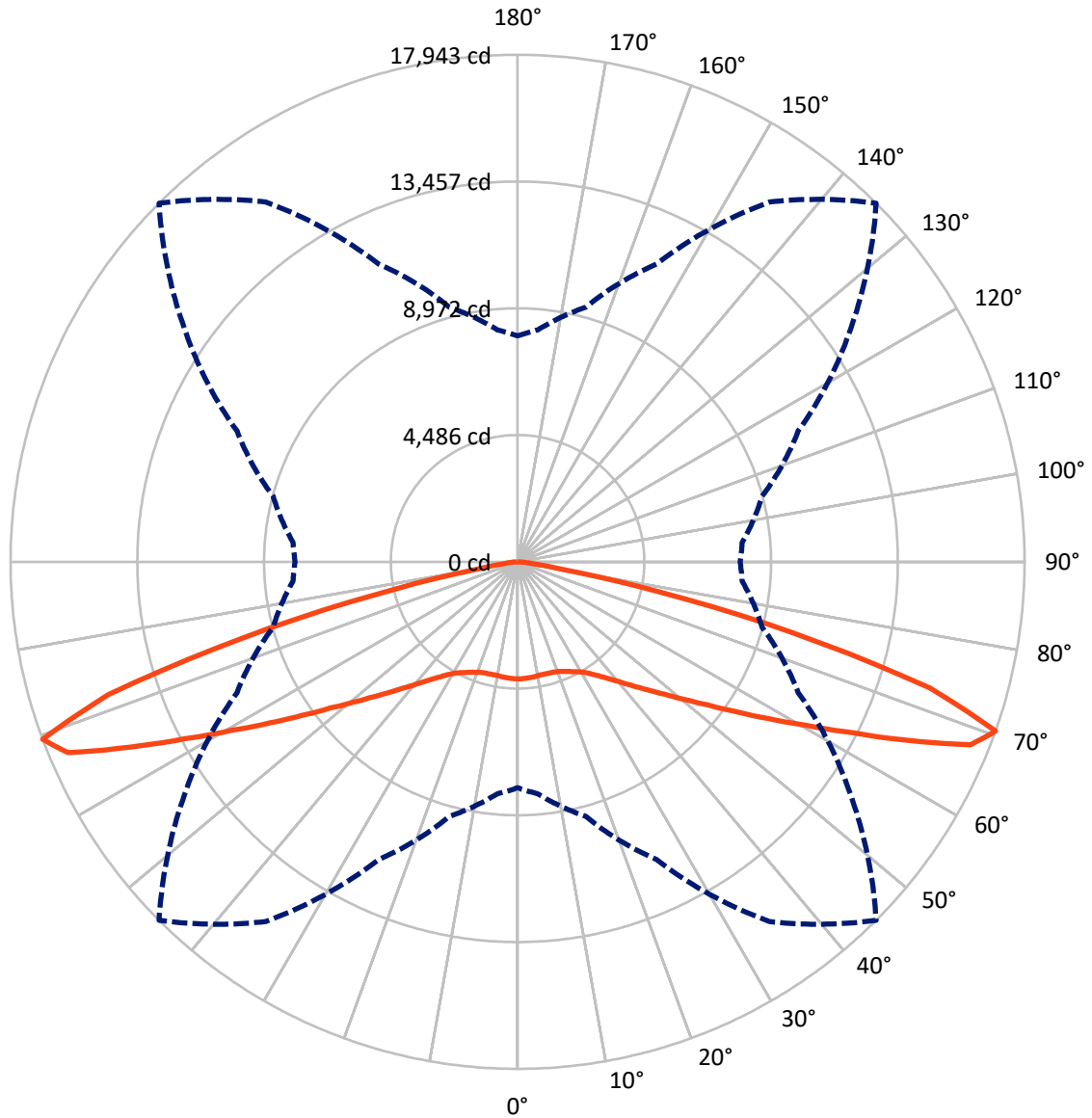
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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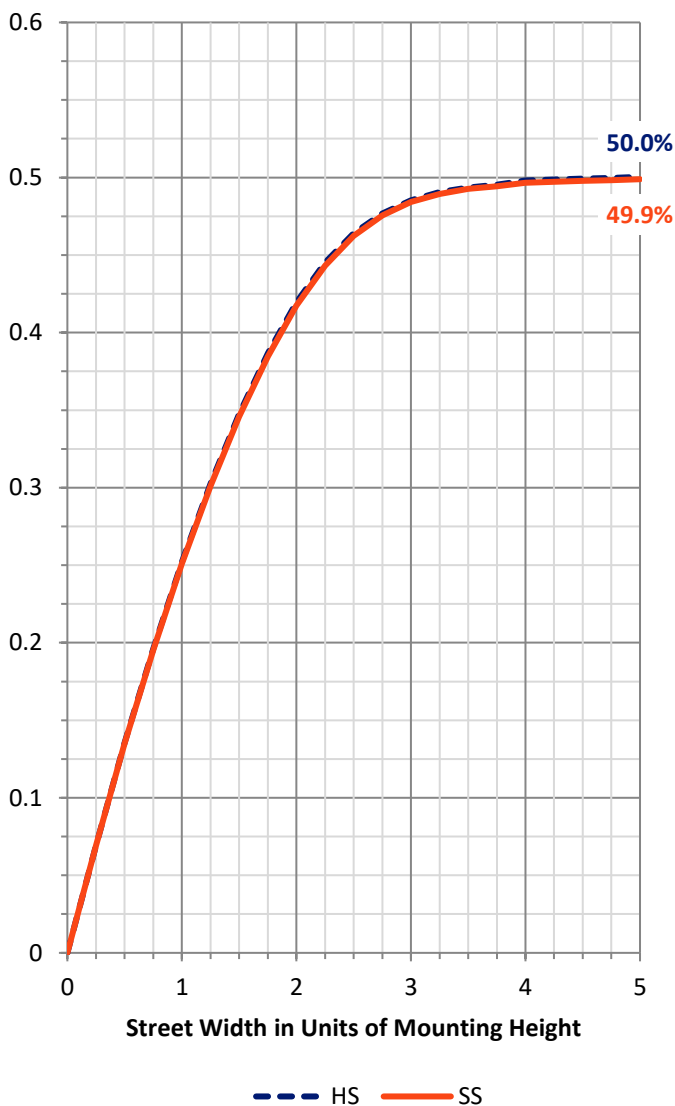
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18975.2	0.0	18975.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18975.2	0.0	18975.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	37950.3	0.0	37950.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.6	1.0
10°-20°	1152.4	3.0
20°-30°	1961.8	5.2
30°-40°	3111.4	8.2
40°-50°	5063.2	13.3
50°-60°	8348.4	22.0
60°-70°	12255.6	32.3
70°-80°	5419.4	14.3
80°-90°	245.4	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°	37950.3	100.0
0°-180°	37950.3	100.0



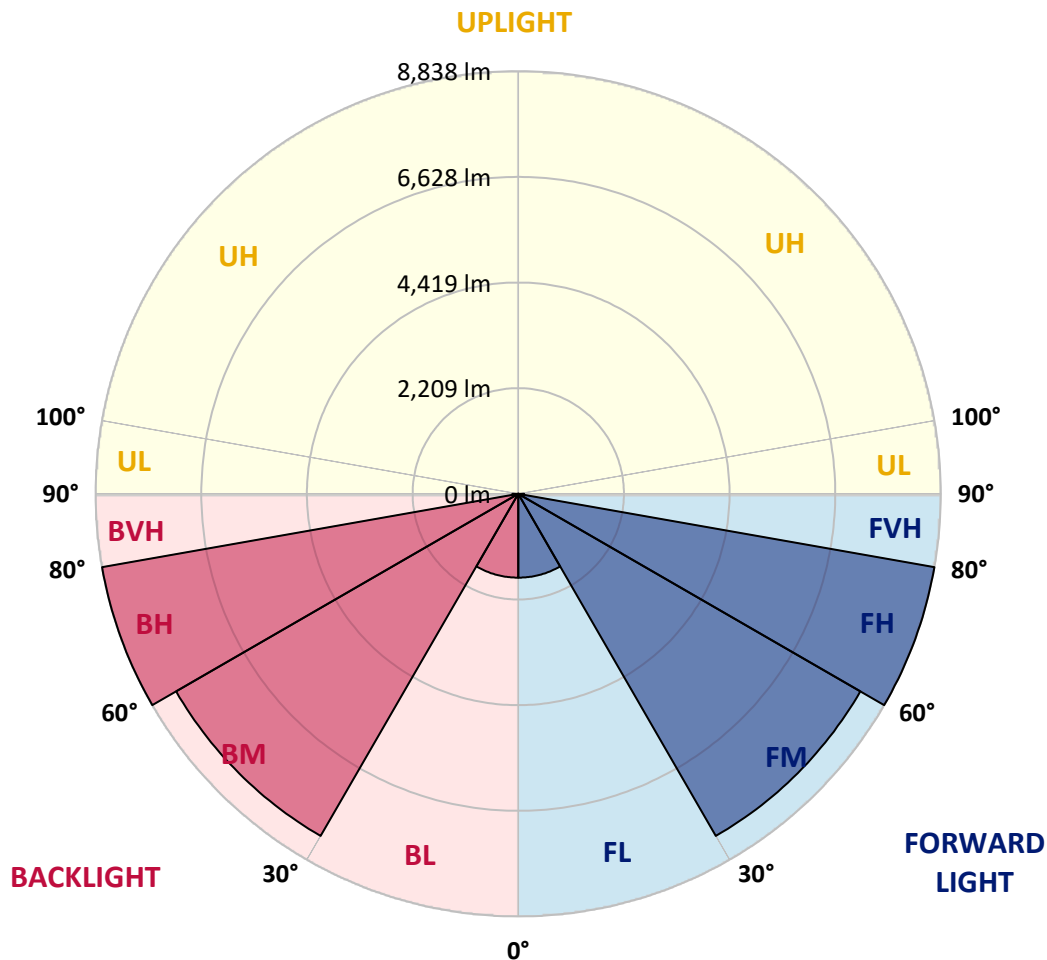
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1753.4	4.6			
FM (30°-60°)	8261.5	21.8			
FH (60°-80°)	8837.5	23.3			G4/12000
FVH (80°-90°)	122.7	0.3			G2/225
BL (0°-30°)	1753.4	4.6	B3/2500		
BM (30°-60°)	8261.5	21.8	B4/8500		
BH (60°-80°)	8837.5	23.3	B5		G4/12000
BVH (80°-90°)	122.7	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4144.7	4144.7	4144.7	4144.7	4144.7	4144.7	4144.7	4144.7	4144.7	4144.7	4144.7
2.5°	4138.5	4134.7	4143.5	4142.2	4134.7	4136.0	4136.0	4139.7	4139.7	4137.2	4137.2
5°	4123.4	4120.9	4130.9	4130.9	4123.4	4125.9	4128.4	4132.2	4130.9	4128.4	4127.2
7.5°	4104.6	4103.3	4113.3	4113.3	4108.3	4110.8	4108.3	4109.6	4107.1	4104.6	4100.8
10°	4073.2	4075.7	4084.5	4087.0	4087.0	4088.3	4085.8	4079.4	4075.7	4071.9	4068.2
12.5°	4044.3	4043.0	4055.6	4061.8	4071.9	4083.3	4075.7	4058.1	4050.6	4043.0	4040.5
15°	4025.4	4026.7	4039.3	4050.6	4068.2	4092.0	4083.3	4055.6	4040.5	4031.7	4029.2
17.5°	4021.7	4024.2	4040.5	4060.6	4079.4	4105.8	4100.8	4073.2	4048.0	4031.7	4027.9
20°	4030.4	4031.7	4056.9	4085.8	4118.4	4143.5	4132.2	4102.1	4068.2	4043.0	4036.8
22.5°	4046.8	4051.9	4083.3	4128.4	4178.6	4212.6	4198.8	4147.2	4094.5	4063.1	4054.4
25°	4098.3	4099.6	4142.2	4203.8	4264.1	4303.0	4286.7	4213.9	4146.0	4110.8	4099.6
27.5°	4205.1	4208.8	4251.5	4323.1	4374.6	4399.7	4389.6	4330.7	4272.9	4235.2	4239.0
30°	4359.5	4364.6	4412.3	4491.5	4522.8	4529.1	4526.6	4498.9	4446.2	4396.0	4399.7
32.5°	4547.9	4550.4	4614.5	4686.1	4711.2	4716.2	4711.2	4686.1	4623.3	4555.5	4559.3
35°	4790.4	4797.8	4859.4	4928.5	4948.6	4958.6	4949.9	4917.2	4851.9	4785.4	4782.8
37.5°	5089.2	5090.5	5154.6	5226.2	5251.3	5253.8	5243.8	5222.4	5140.7	5080.5	5076.7
40°	5436.0	5441.0	5516.3	5592.9	5603.0	5591.7	5605.5	5592.9	5508.8	5439.7	5451.0
42.5°	5857.9	5869.2	5959.7	6035.0	6006.2	5999.8	6008.7	6012.4	5944.6	5860.5	5852.9
45°	6349.1	6359.1	6472.1	6532.4	6513.6	6472.1	6489.7	6519.8	6425.6	6321.4	6331.4
47.5°	6909.2	6934.3	7054.9	7111.4	7065.0	7008.4	7042.3	7087.6	6977.0	6847.6	6841.4
50°	7532.2	7563.6	7724.3	7803.5	7757.0	7652.8	7709.3	7739.4	7579.9	7412.9	7399.0
52.5°	8196.6	8228.0	8430.2	8593.4	8563.3	8401.3	8480.4	8449.0	8265.6	8040.8	8023.2
55°	8948.9	8961.5	9180.0	9443.8	9473.9	9354.6	9349.6	9298.1	9026.8	8766.8	8754.2
57.5°	9722.7	9731.4	10014.0	10325.5	10467.4	10467.4	10326.8	10217.5	9857.0	9555.5	9524.1
60°	10557.9	10589.3	10902.0	11325.3	11656.8	11754.8	11506.1	11208.5	10816.6	10448.6	10412.2
62.5°	11301.3	11337.8	11816.3	12446.9	12979.4	13336.1	12728.2	12243.4	11530.0	10939.6	10870.6
65°	11395.6	11493.5	12190.6	13332.3	14524.2	15236.4	14070.8	12876.4	11576.4	10756.3	10686.0
67.5°	10407.2	10572.9	11515.0	13292.2	15755.2	17283.7	14928.7	12514.7	10742.5	9835.7	9757.8
70°	7996.9	8238.0	9324.5	11626.7	15542.9	17943.1	14391.1	10956.0	8956.5	7980.6	7871.3
72.5°	4387.2	4486.4	5463.5	7961.8	12460.7	15247.8	12003.5	8101.1	5939.5	4833.1	4649.6
75°	1391.6	1426.8	1924.2	3258.0	7048.6	10099.4	7625.1	3976.5	2189.2	1613.9	1595.1
77.5°	618.0	621.7	695.8	950.7	2427.8	5116.9	2916.4	1082.6	746.1	651.9	673.2
80°	390.6	390.6	430.8	471.0	660.7	1485.8	788.7	515.0	439.6	408.2	417.0
82.5°	187.1	207.3	280.1	301.4	363.0	499.9	404.4	336.6	293.9	218.5	203.4
85°	123.1	103.0	177.1	199.7	211.0	239.9	234.8	222.3	192.2	109.3	121.8
87.5°	55.2	52.7	91.7	84.1	79.1	60.3	90.5	111.8	108.1	54.0	54.0
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)