

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: P383131

Luminaire Tested: **GLEON-SA4D-735-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4D-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30076.9 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

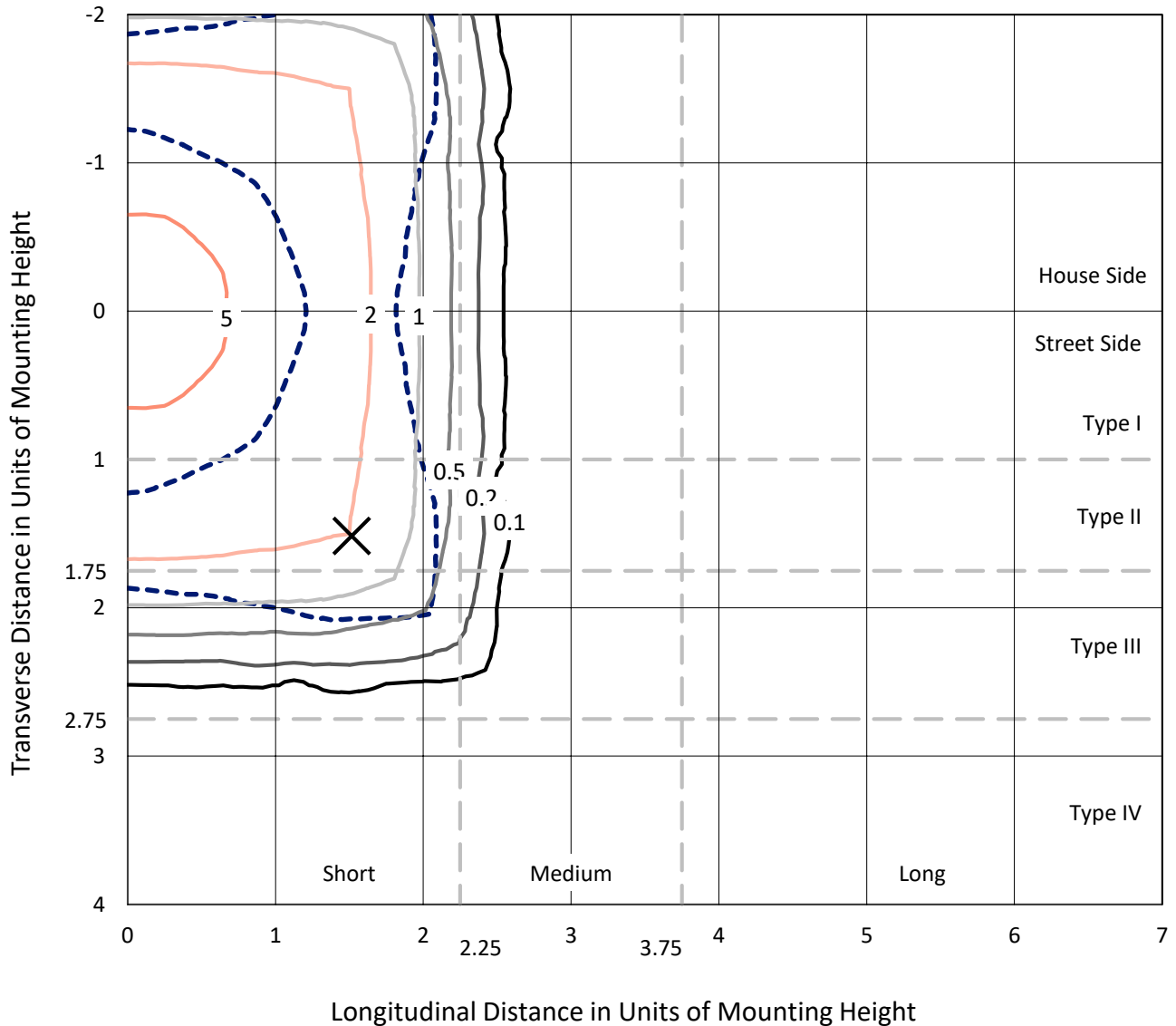
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

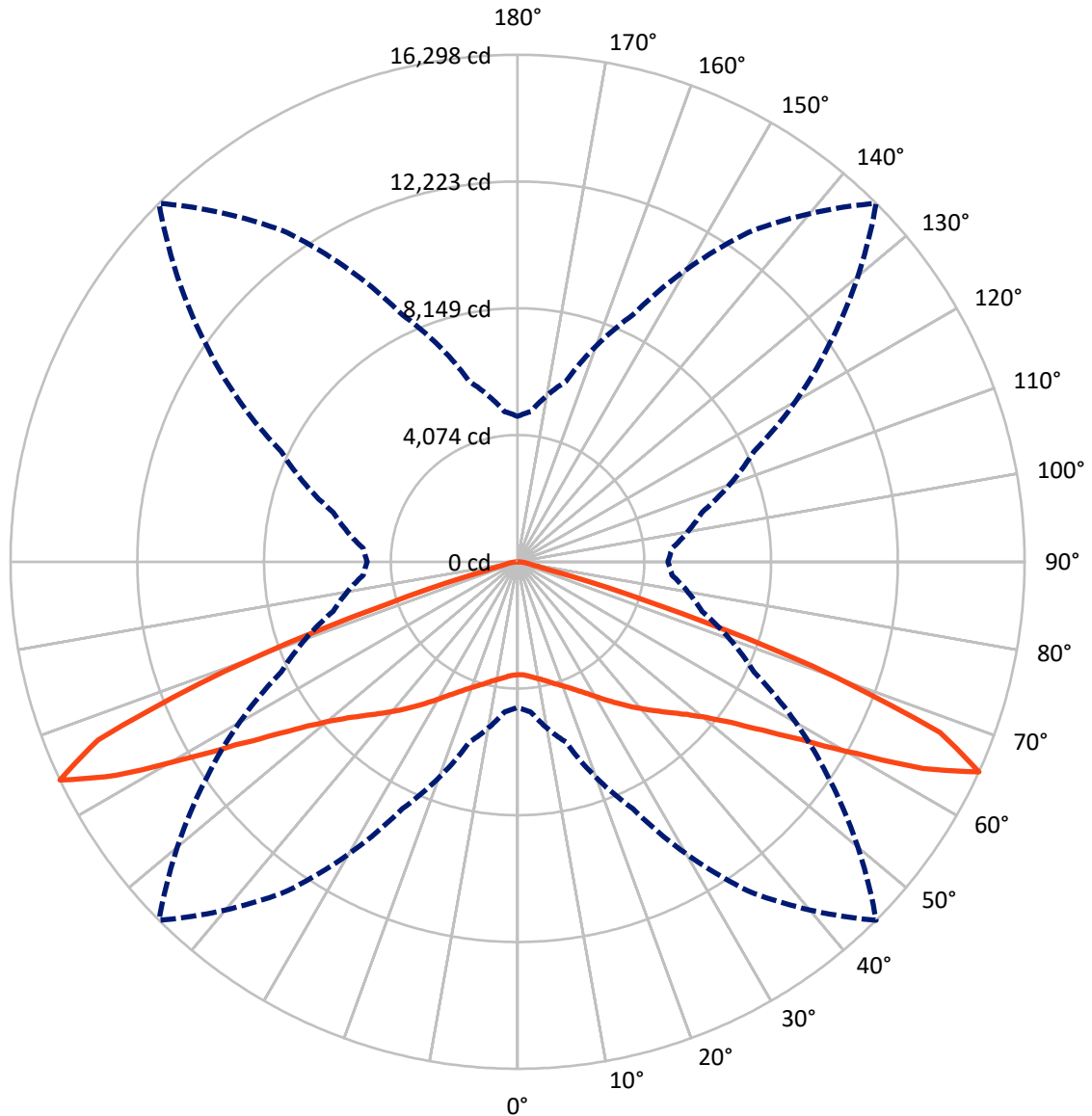
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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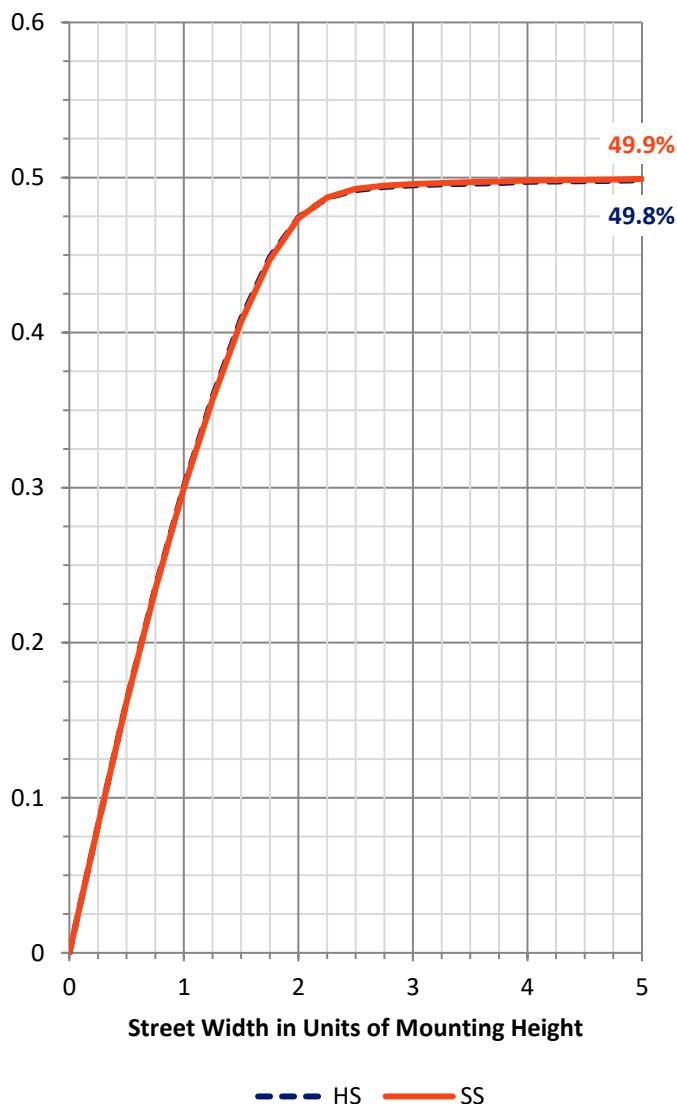
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15038.4	0.0	15038.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15038.4	0.0	15038.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	30076.9	0.0	30076.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.4	1.2
10°-20°	1145.5	3.8
20°-30°	2149.1	7.1
30°-40°	3554.1	11.8
40°-50°	5504.9	18.3
50°-60°	8443.0	28.1
60°-70°	7878.2	26.2
70°-80°	916.9	3.0
80°-90°	128.8	0.4
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°	30076.9	100.0
0°-180°	30076.9	100.0

Coefficient of Utilization



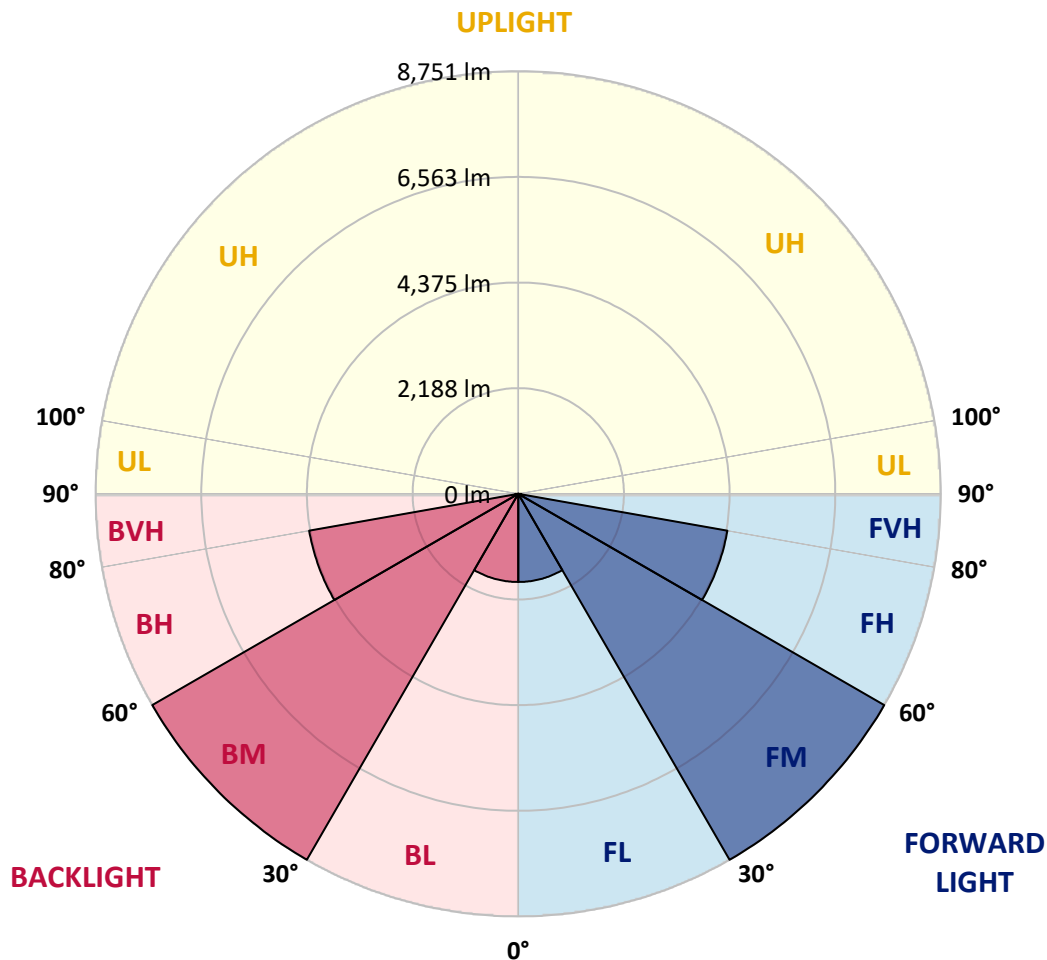
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1825.4	6.1			
FM (30°-60°)	8751.0	29.1			
FH (60°-80°)	4397.6	14.6			G2/5000
FVH (80°-90°)	64.4	0.2			G1/100
BL (0°-30°)	1825.4	6.1	B3/2500		
BM (30°-60°)	8751.0	29.1	B5		
BH (60°-80°)	4397.6	14.6	B4/5000		G2/5000
BVH (80°-90°)	64.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2	3632.2
2.5°	3644.1	3642.2	3644.1	3645.1	3639.2	3642.2	3641.1	3646.2	3648.1	3646.2	3646.2
5°	3686.0	3683.1	3687.1	3692.1	3684.1	3686.0	3683.1	3689.1	3691.1	3687.1	3690.0
7.5°	3744.0	3745.0	3749.0	3758.0	3752.9	3756.9	3751.0	3752.0	3751.0	3745.0	3745.9
10°	3806.9	3807.9	3814.9	3826.9	3828.8	3828.8	3824.8	3821.9	3817.9	3813.8	3814.9
12.5°	3882.8	3887.7	3892.8	3907.7	3907.7	3915.7	3913.7	3905.7	3898.7	3892.8	3892.8
15°	3985.6	3984.6	3990.6	4005.6	4012.5	4025.5	4025.5	4014.5	4005.6	3999.6	3997.6
17.5°	4093.4	4096.4	4100.4	4118.4	4129.4	4144.4	4146.3	4137.4	4131.3	4123.4	4118.4
20°	4219.3	4224.2	4240.2	4247.2	4257.2	4271.1	4276.1	4274.1	4268.2	4264.2	4265.2
22.5°	4366.0	4378.9	4389.0	4399.0	4410.9	4420.9	4425.9	4432.9	4426.9	4423.9	4421.9
25°	4543.7	4552.7	4572.7	4590.7	4598.6	4601.6	4607.6	4617.6	4616.6	4609.6	4609.6
27.5°	4745.4	4762.4	4787.3	4813.3	4813.3	4803.2	4823.3	4840.2	4834.3	4825.2	4813.3
30°	4990.0	5006.0	5034.9	5070.9	5052.9	5045.9	5072.8	5103.8	5094.8	5079.8	5077.9
32.5°	5253.6	5268.6	5306.5	5345.4	5322.5	5312.4	5341.4	5386.3	5370.4	5340.4	5322.5
35°	5539.1	5554.1	5608.0	5655.0	5616.0	5599.0	5623.0	5671.9	5644.0	5588.0	5574.0
37.5°	5849.6	5857.6	5927.4	5975.4	5948.4	5903.5	5933.5	5969.5	5945.4	5877.6	5850.6
40°	6172.1	6201.0	6281.9	6337.8	6290.9	6220.0	6270.0	6319.8	6283.9	6197.0	6151.1
42.5°	6548.5	6570.5	6678.3	6728.2	6652.3	6552.5	6620.3	6688.2	6652.3	6568.4	6528.5
45°	6939.8	6973.8	7102.6	7152.5	7042.7	6915.9	6998.7	7117.6	7114.6	6993.8	6951.9
47.5°	7366.1	7400.1	7553.8	7619.8	7500.9	7331.2	7448.0	7615.8	7603.8	7471.0	7437.0
50°	7858.3	7894.3	8086.0	8168.8	8058.1	7860.4	8036.1	8183.8	8161.8	7998.2	8001.2
52.5°	8476.3	8474.4	8713.0	8856.8	8742.9	8568.2	8730.0	8873.7	8782.9	8556.3	8549.3
55°	9017.5	9050.5	9345.9	9618.5	9611.5	9544.6	9609.6	9615.5	9356.0	9054.5	9017.5
57.5°	9373.0	9435.8	9852.1	10345.4	10714.8	10803.6	10677.9	10296.5	9688.5	9206.2	9147.3
60°	9154.3	9250.2	9904.1	10909.4	11997.7	12519.9	11810.1	10626.9	9429.9	8757.9	8678.0
62.5°	7678.7	7840.4	8797.9	10636.9	13101.9	14628.5	12630.7	10096.8	8401.5	7475.9	7339.2
65°	4676.5	4847.2	6001.4	8755.0	12923.3	16297.8	12256.3	8380.6	6132.2	4981.0	4833.2
67.5°	1558.5	1608.4	2288.3	4839.2	10156.7	14643.5	10173.6	5016.9	2668.7	1769.2	1717.2
70°	610.0	615.0	725.9	1402.7	4796.3	10057.8	5292.5	1427.7	758.7	600.0	613.1
72.5°	448.3	450.3	481.2	586.0	1250.0	4430.9	1294.9	589.0	468.3	420.3	420.3
75°	360.4	360.4	382.4	427.3	560.1	1016.4	568.1	422.4	366.4	335.5	331.4
77.5°	284.6	290.5	307.5	336.5	379.4	489.2	393.4	334.4	295.5	266.6	260.6
80°	211.6	217.6	245.6	259.6	272.6	339.5	290.5	261.6	233.6	199.7	193.7
82.5°	138.8	144.8	179.7	187.7	184.7	221.6	195.7	192.6	171.7	128.8	122.8
85°	90.8	92.9	119.8	124.8	114.9	100.8	124.8	131.8	119.8	83.8	80.9
87.5°	42.9	42.9	60.9	56.9	51.9	41.9	56.9	66.9	67.9	40.9	40.0
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)