

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: P651448

Luminaire Tested: **GALN-SA6D-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39803.7 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

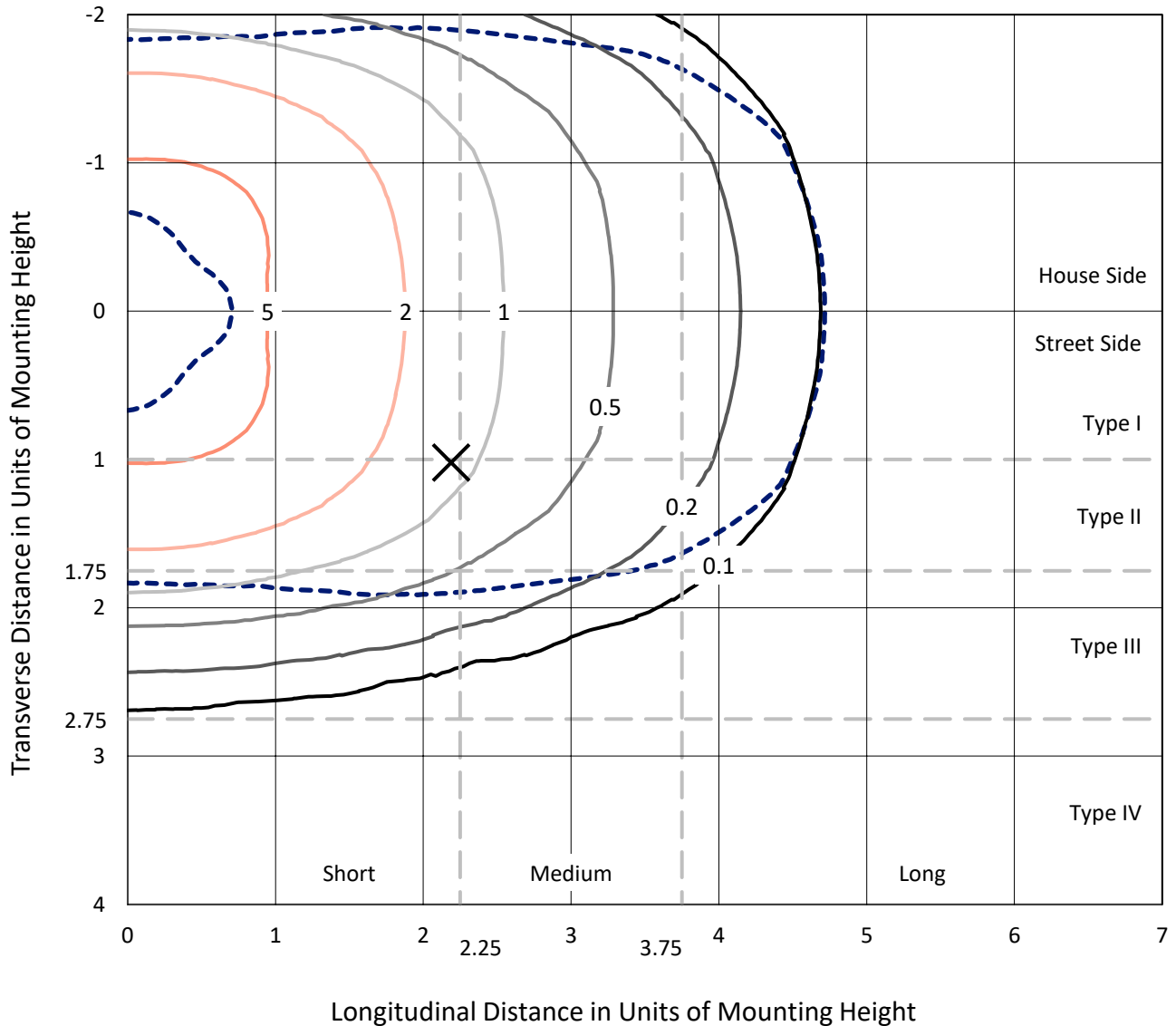
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

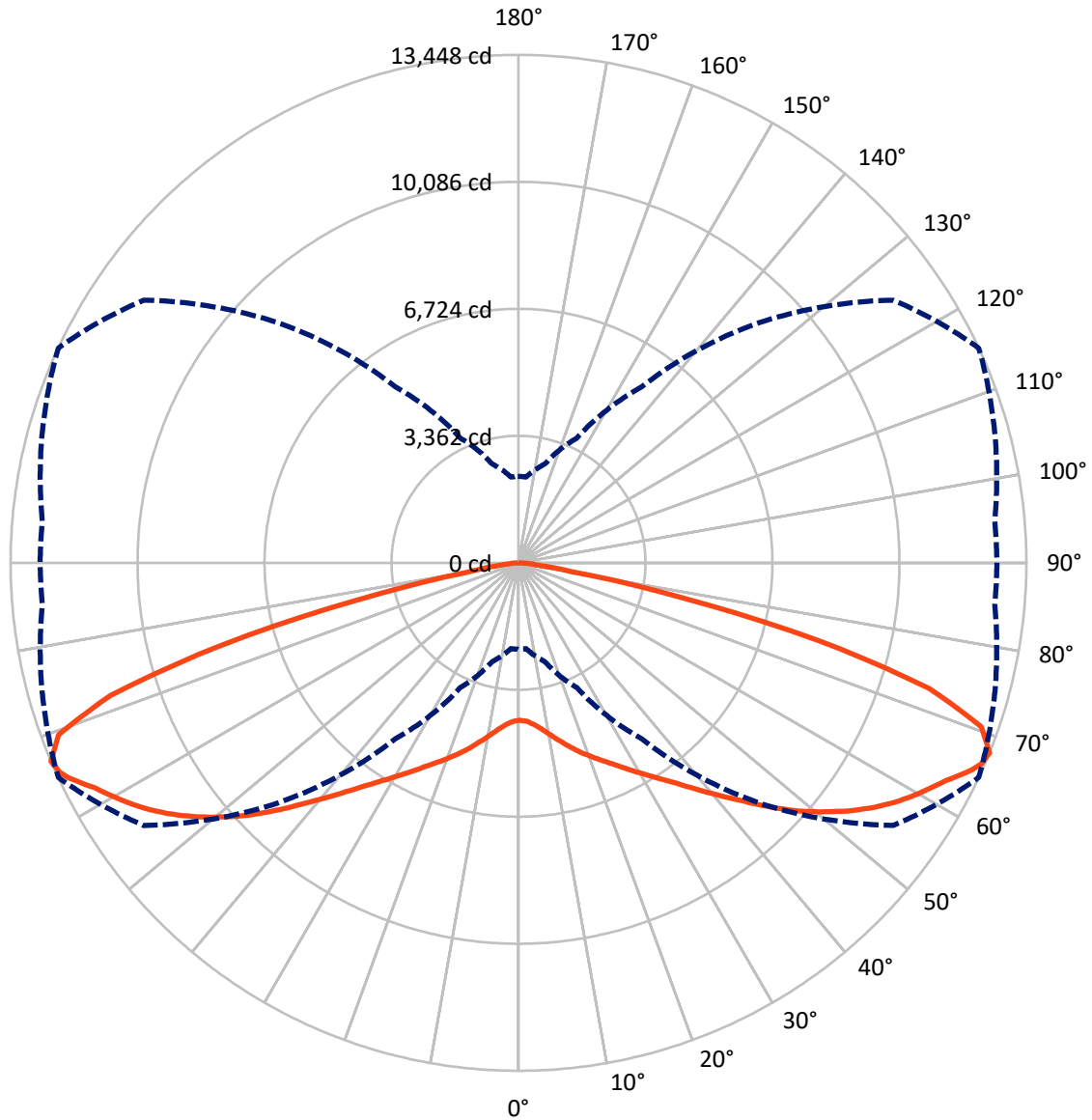
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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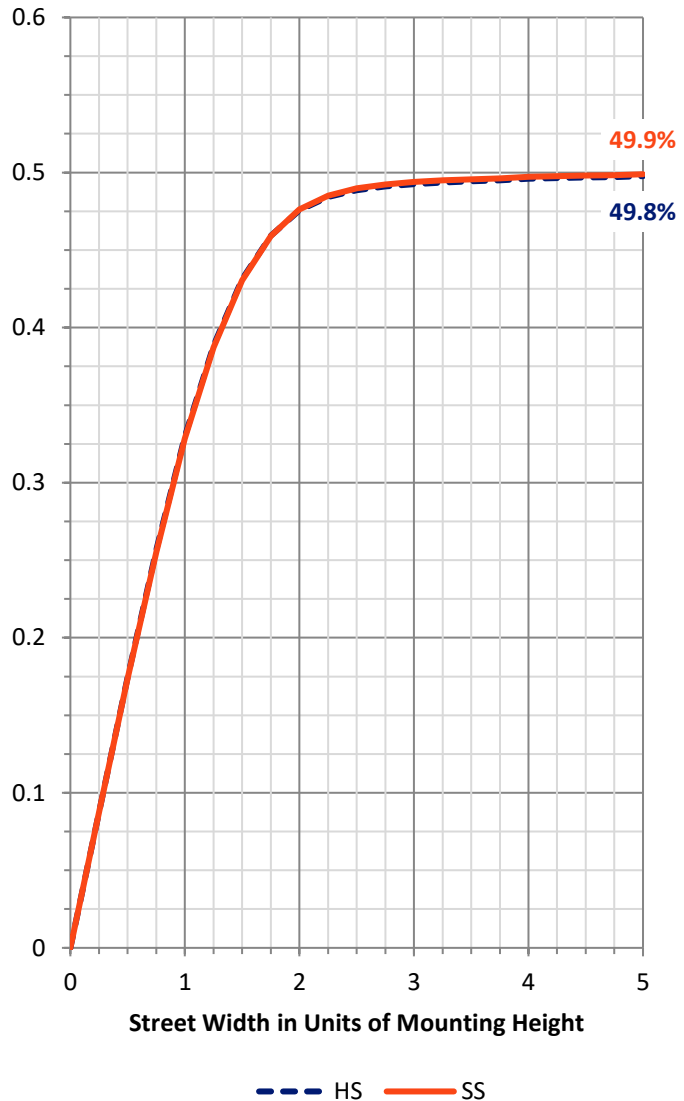
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19901.8	0.0	19901.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19901.8	0.0	19901.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	39803.7	0.0	39803.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.2	1.0
10°-20°	1376.2	3.5
20°-30°	2691.9	6.8
30°-40°	4578.6	11.5
40°-50°	7246.6	18.2
50°-60°	9608.8	24.1
60°-70°	9064.1	22.8
70°-80°	4480.8	11.3
80°-90°	345.3	0.9
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°	39803.7	100.0
0°-180°	39803.7	100.0

Coefficient of Utilization



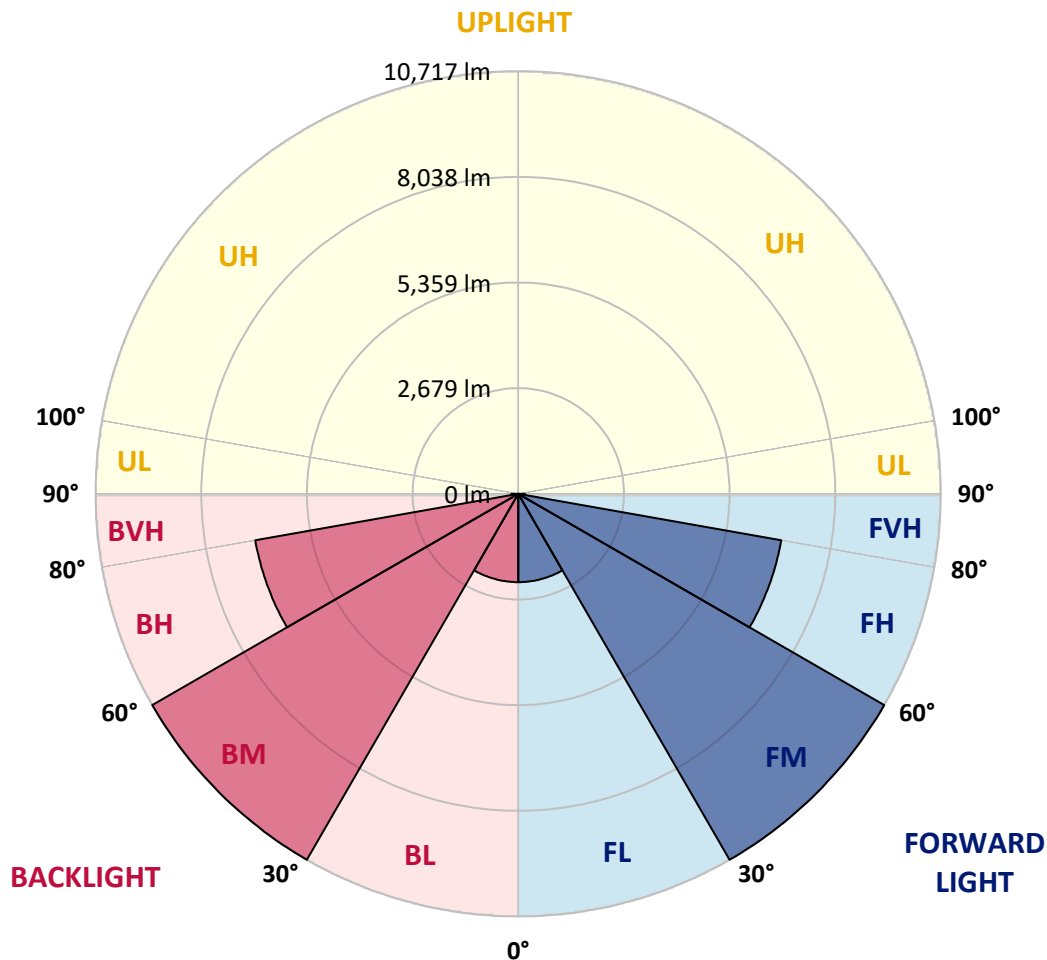
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2239.7	5.6			
FM (30°-60°)	10717.0	26.9			
FH (60°-80°)	6772.5	17.0			G3/7500
FVH (80°-90°)	172.7	0.4			G2/225
BL (0°-30°)	2239.7	5.6	B3/2500		
BM (30°-60°)	10717.0	26.9	B5		
BH (60°-80°)	6772.5	17.0	B5		G5
BVH (80°-90°)	172.7	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1	4169.1
2.5°	4147.7	4152.0	4156.3	4162.7	4171.2	4184.0	4192.6	4198.9	4216.0	4218.1	4216.0
5°	4132.8	4137.1	4147.7	4167.0	4194.7	4233.1	4262.9	4299.2	4326.9	4346.1	4341.8
7.5°	4130.7	4139.2	4156.3	4196.8	4250.2	4316.3	4384.5	4446.3	4499.6	4542.2	4535.8
10°	4164.8	4175.5	4203.2	4262.9	4346.1	4442.1	4538.0	4629.7	4706.5	4761.9	4781.1
12.5°	4222.4	4230.9	4282.1	4371.7	4491.1	4610.5	4719.3	4832.3	4938.9	5032.8	5032.8
15°	4322.7	4337.5	4401.5	4531.6	4678.7	4817.3	4928.3	5047.7	5162.8	5269.5	5301.5
17.5°	4461.3	4482.5	4578.5	4744.8	4932.5	5060.5	5165.0	5263.1	5363.3	5465.7	5480.6
20°	4651.1	4672.3	4800.3	5000.8	5222.5	5376.1	5446.5	5469.9	5519.0	5617.0	5629.9
22.5°	4909.1	4930.4	5073.2	5299.3	5546.7	5713.0	5742.9	5687.4	5674.6	5751.4	5759.9
25°	5201.2	5220.4	5384.6	5627.7	5883.6	6064.9	6056.4	5919.9	5843.1	5890.0	5902.8
27.5°	5529.7	5557.3	5723.7	5975.3	6252.6	6412.5	6386.9	6188.6	6024.4	6015.8	6020.1
30°	5949.7	5979.6	6137.4	6378.4	6651.4	6798.5	6745.2	6478.6	6224.8	6139.6	6139.6
32.5°	6393.3	6468.0	6627.9	6879.5	7092.7	7199.4	7118.4	6798.5	6461.6	6342.1	6335.8
35°	6971.2	7011.8	7169.5	7414.8	7574.7	7657.9	7502.2	7158.8	6770.8	6630.0	6610.8
37.5°	7536.4	7570.4	7753.9	7988.4	8182.5	8178.2	7967.1	7587.5	7154.6	6996.8	6984.0
40°	8114.2	8150.5	8359.5	8574.9	8768.9	8751.9	8496.0	8071.6	7611.0	7434.0	7468.1
42.5°	8615.4	8655.9	8892.6	9199.7	9374.5	9370.3	9073.9	8596.2	8116.4	7958.6	7988.4
45°	9071.8	9108.0	9383.1	9735.0	9990.9	10022.9	9698.7	9193.3	8700.7	8498.1	8506.6
47.5°	9393.8	9462.0	9749.9	10153.0	10500.6	10613.6	10295.9	9801.1	9233.8	9022.8	9035.5
50°	9639.0	9681.7	9995.1	10453.6	10893.0	11127.5	10871.6	10364.1	9767.0	9543.1	9572.9
52.5°	9668.9	9720.0	10061.2	10590.1	11153.1	11509.3	11383.4	10914.2	10310.7	10080.5	10144.4
55°	9425.8	9455.6	9862.9	10504.8	11255.4	11792.8	11824.9	11426.1	10829.0	10654.1	10696.8
57.5°	8732.7	8809.5	9325.5	10106.0	11114.7	11944.3	12155.4	11891.0	11353.6	11180.8	11249.0
60°	7596.1	7672.9	8191.0	9180.5	10583.7	11873.9	12428.4	12302.6	11829.1	11690.5	11726.7
62.5°	5951.8	5945.4	6587.4	7800.8	9528.1	11528.4	12631.0	12699.2	12298.3	12123.4	12178.9
65°	3857.8	3876.9	4497.5	5804.8	7935.1	10649.8	12675.7	13204.6	12758.9	12494.5	12534.9
66°	3102.8	3160.4	3687.1	4892.0	7122.6	10074.1	12541.4	13353.9	12899.7	12579.8	12598.9
67.5°	2290.3	2279.7	2712.6	3642.4	5687.4	8980.0	12121.2	13447.7	13059.6	12656.5	12665.0
70°	1307.3	1305.1	1458.6	2000.3	3343.8	6323.0	10216.9	12997.7	13383.8	12933.7	12910.3
72.5°	955.4	949.0	970.3	1104.7	1631.4	3192.4	7048.0	11360.0	13217.4	12889.0	12822.9
75°	801.8	797.6	793.3	810.4	914.8	1445.8	3740.4	8171.8	11468.7	12097.8	12029.6
77.5°	654.7	654.7	656.8	652.5	656.8	761.3	1550.4	4380.2	6984.0	7796.5	7986.3
80°	511.8	509.6	545.9	531.0	496.9	488.4	686.7	1409.6	2318.0	2305.3	1902.2
82.5°	377.4	351.9	415.9	405.2	366.8	311.3	400.9	601.4	774.1	503.3	373.2
85°	238.8	236.7	294.3	268.7	223.9	147.2	191.9	258.0	319.9	194.0	157.8
87.5°	42.6	40.5	93.9	68.2	68.2	42.6	53.3	70.4	104.5	72.5	53.3
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)