

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: P647478

Luminaire Tested: **GALN-SA6D-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 37485.3 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

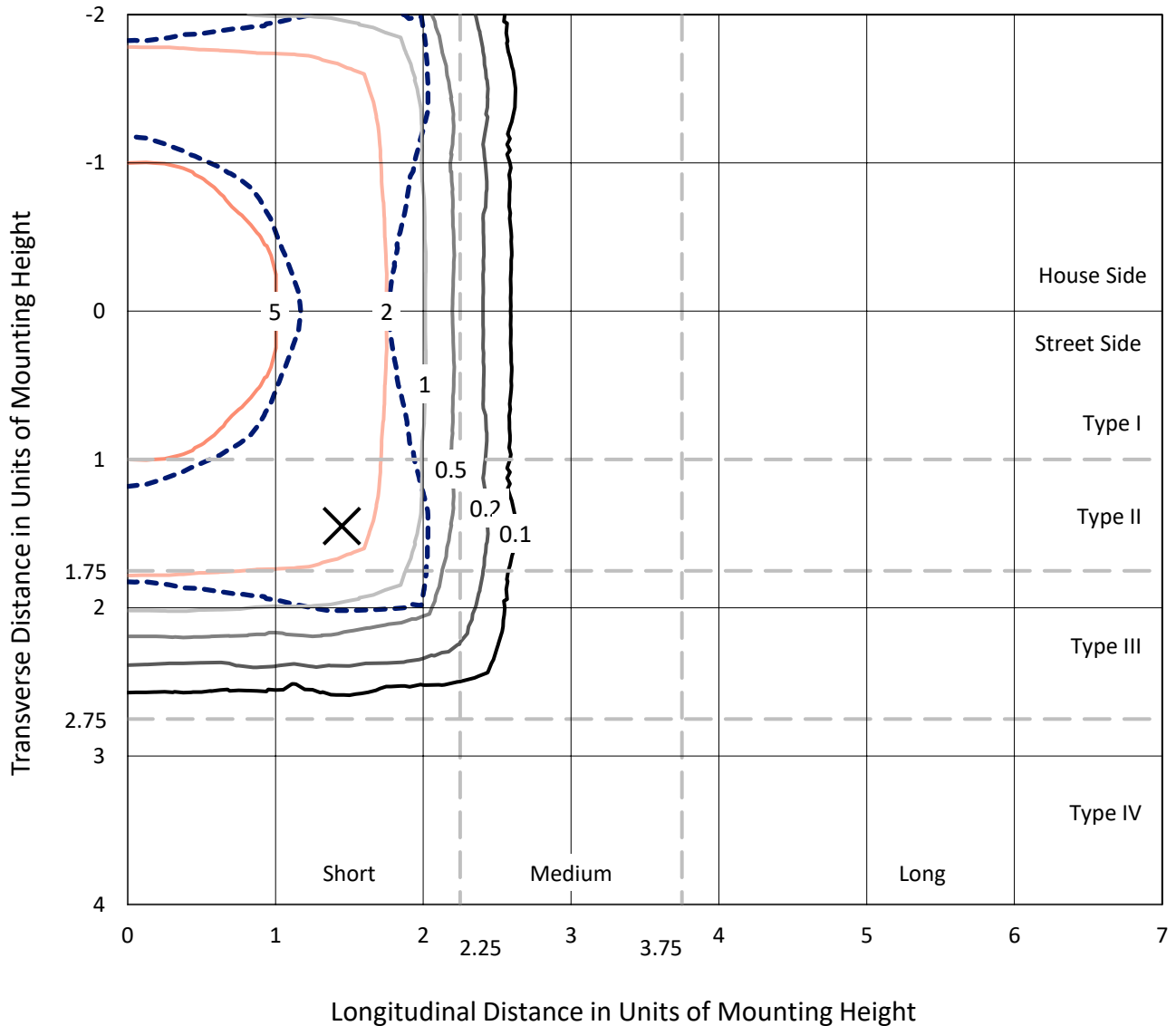
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

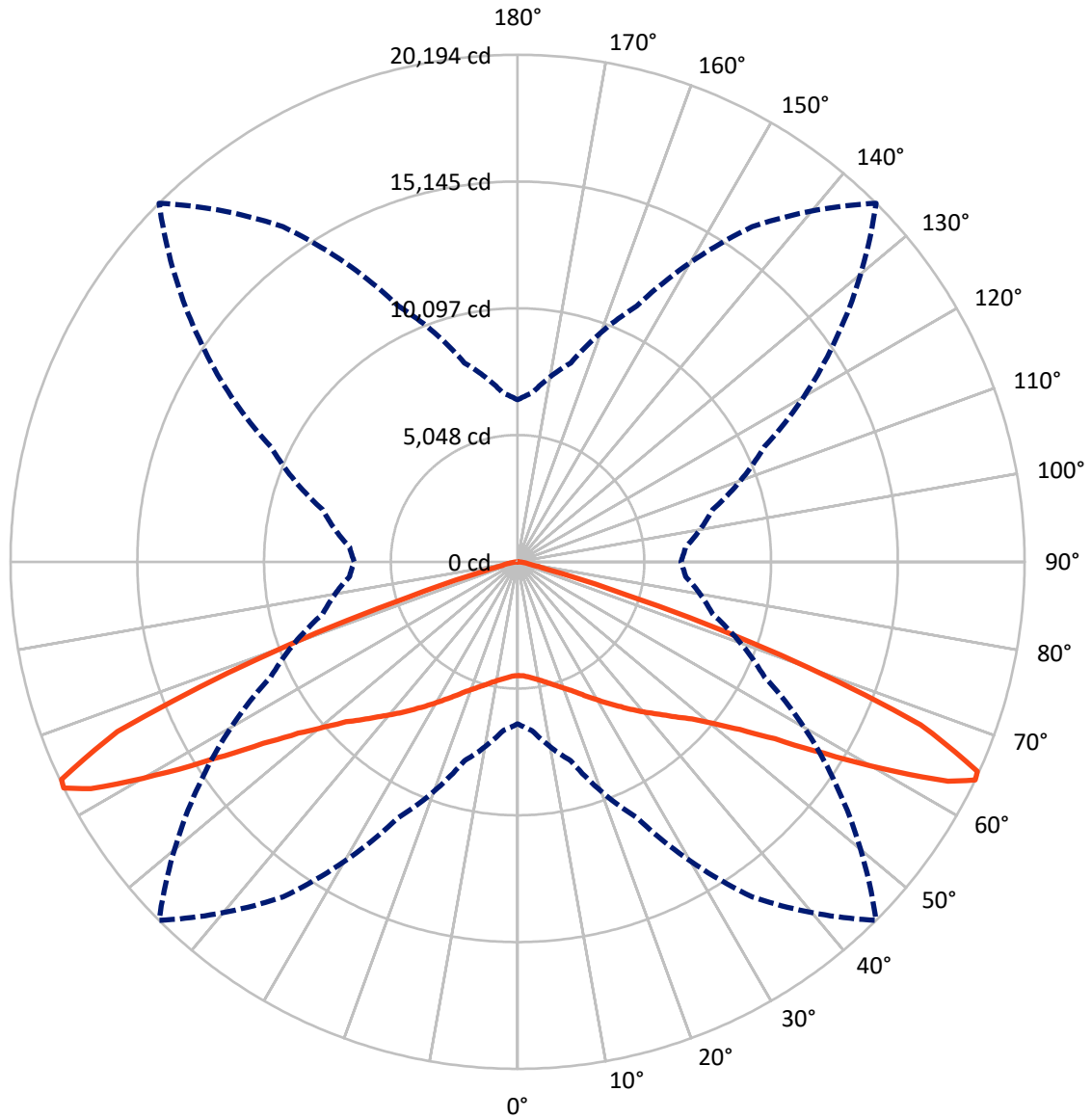
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18742.7	0.0	18742.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18742.7	0.0	18742.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	37485.3	0.0	37485.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.1	1.2
10°-20°	1435.8	3.8
20°-30°	2713.2	7.2
30°-40°	4493.4	12.0
40°-50°	7014.9	18.7
50°-60°	10844.9	28.9
60°-70°	9351.4	24.9
70°-80°	1059.8	2.8
80°-90°	127.0	0.3
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°	37485.3	100.0
0°-180°	37485.3	100.0



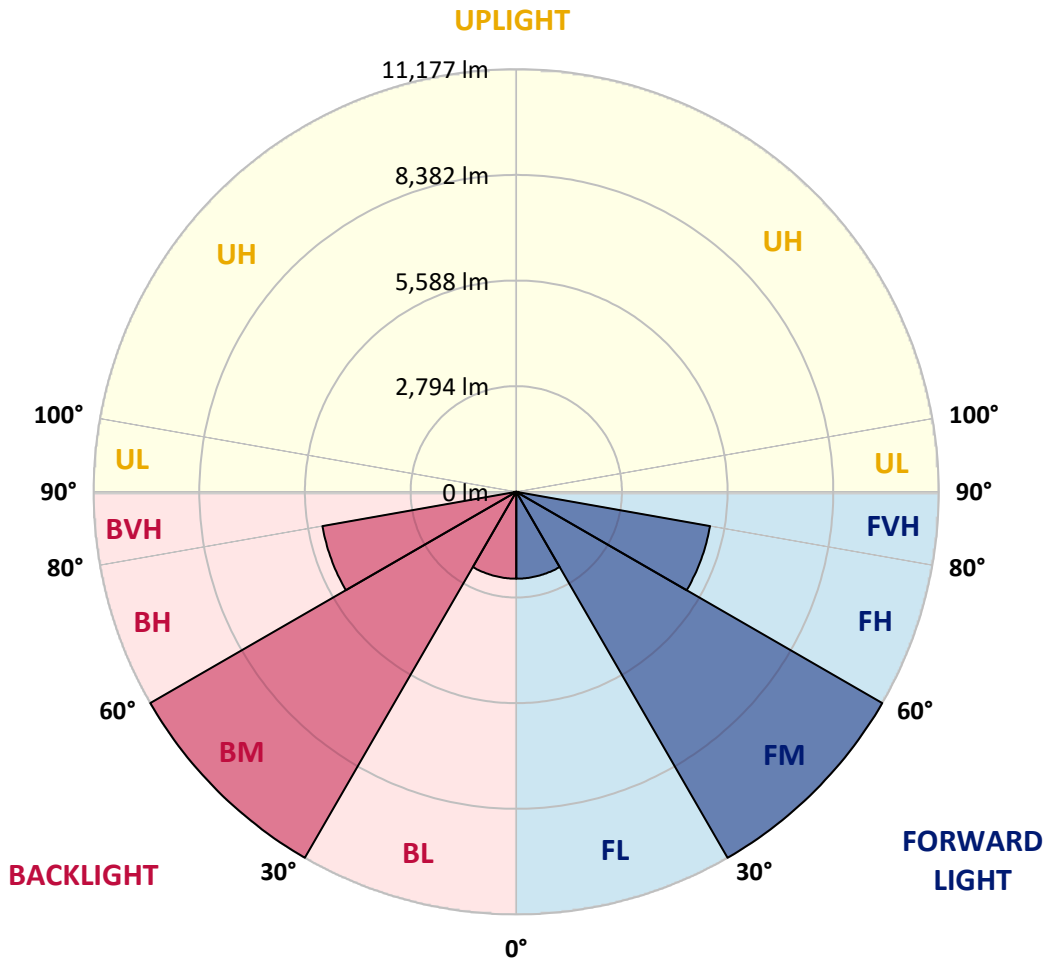
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2297.1	6.1			
FM (30°-60°)	11176.6	29.8			
FH (60°-80°)	5205.6	13.9			G3/7500
FVH (80°-90°)	63.5	0.2			G1/100
BL (0°-30°)	2297.1	6.1	B3/2500		
BM (30°-60°)	11176.6	29.8	B5		
BH (60°-80°)	5205.6	13.9	B5		G3/7500
BVH (80°-90°)	63.5	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8	4530.8
2.5°	4548.6	4558.5	4550.6	4548.6	4546.6	4546.6	4546.6	4548.6	4556.5	4562.5	4558.5
5°	4606.2	4614.1	4610.1	4608.2	4606.2	4608.2	4604.2	4602.2	4608.2	4608.2	4606.2
7.5°	4677.6	4687.6	4683.6	4687.6	4689.5	4691.6	4681.6	4673.6	4671.7	4677.6	4673.6
10°	4775.0	4782.9	4784.8	4786.9	4790.8	4788.8	4776.9	4763.1	4761.0	4759.1	4757.0
12.5°	4884.1	4890.1	4892.1	4900.0	4906.0	4908.0	4894.1	4882.2	4862.3	4866.3	4858.4
15°	5007.2	5019.2	5017.2	5029.1	5044.9	5048.9	5035.0	5015.2	4997.3	4987.4	4981.4
17.5°	5158.1	5166.1	5162.1	5174.0	5193.9	5203.8	5191.9	5166.1	5148.2	5126.4	5114.5
20°	5336.8	5350.7	5354.7	5354.7	5372.6	5382.5	5364.6	5356.7	5328.9	5313.0	5303.0
22.5°	5539.3	5545.3	5557.2	5569.1	5586.9	5583.0	5577.1	5565.2	5539.3	5525.4	5509.6
25°	5767.7	5773.6	5803.4	5829.2	5835.2	5831.2	5823.2	5817.3	5793.5	5761.7	5749.8
27.5°	6033.7	6045.6	6085.3	6109.1	6109.1	6111.2	6095.3	6115.1	6063.5	6025.7	6021.8
30°	6367.3	6375.2	6408.9	6432.7	6420.8	6410.9	6407.0	6426.8	6371.2	6303.7	6287.8
32.5°	6696.8	6724.6	6754.4	6806.0	6764.3	6746.5	6742.5	6756.4	6692.8	6617.4	6595.6
35°	7050.2	7070.1	7125.7	7169.4	7131.6	7089.9	7107.8	7151.5	7076.0	6974.8	6970.8
37.5°	7441.4	7459.2	7530.7	7576.4	7548.6	7477.1	7506.9	7558.5	7483.1	7358.0	7332.2
40°	7848.4	7886.1	7975.4	8023.1	7977.4	7882.1	7937.7	7993.3	7925.8	7780.9	7723.3
42.5°	8305.0	8364.6	8493.7	8517.5	8430.1	8301.1	8398.3	8487.6	8440.0	8273.3	8251.4
45°	8839.1	8874.8	9033.7	9085.3	8964.2	8803.3	8924.5	9087.3	9051.6	8858.9	8817.3
47.5°	9436.7	9470.5	9635.3	9712.7	9559.8	9343.4	9561.8	9774.3	9752.4	9545.9	9526.1
50°	10143.5	10151.4	10379.8	10467.1	10314.3	10127.6	10322.2	10586.2	10498.9	10234.8	10230.9
52.5°	10917.8	10927.8	11215.6	11384.4	11299.0	11088.6	11318.9	11479.7	11257.3	10911.9	10886.0
55°	11588.9	11638.5	12031.7	12480.4	12597.5	12444.6	12514.1	12438.7	11890.7	11406.3	11330.8
57.5°	11862.9	11960.2	12557.8	13395.6	14158.0	14384.4	13848.3	13129.6	12142.8	11457.9	11384.4
60°	11193.8	11299.0	12226.2	13816.6	15762.3	16745.1	15238.1	13246.7	11569.1	10606.1	10490.9
62.5°	8964.2	8993.9	10357.9	12825.9	16697.4	19242.7	15823.8	12248.1	9899.3	8590.9	8545.3
64°	6450.7	6756.4	8201.8	11245.4	16288.4	20193.7	15486.3	10848.4	8040.9	6716.7	6502.3
65°	4824.6	4908.0	6611.5	9603.5	15567.7	20122.2	14831.1	9510.2	6659.1	5140.2	4902.0
67.5°	1822.6	1832.5	2440.1	4786.9	11082.7	17312.9	11318.9	5174.0	2805.4	2029.1	1955.6
70°	756.5	770.3	895.4	1610.2	4763.1	11116.4	5457.9	1866.3	1026.4	831.9	820.0
72.5°	553.9	561.9	599.6	714.7	1465.2	4564.5	1794.8	792.2	601.6	538.1	532.1
75°	434.8	438.8	466.6	526.2	683.0	1264.7	746.5	544.0	458.6	413.0	409.0
77.5°	331.6	341.5	361.4	401.1	458.6	599.6	494.4	407.0	353.4	315.7	309.8
80°	228.3	240.2	278.0	293.9	307.7	389.2	337.6	307.7	276.0	230.3	216.4
82.5°	140.9	148.9	186.7	200.5	194.6	218.4	216.4	220.4	196.5	143.0	133.0
85°	73.4	77.4	101.2	105.2	97.2	89.3	111.2	129.0	121.1	81.4	79.4
87.5°	15.9	17.9	21.8	19.9	21.8	21.8	27.8	41.7	43.7	27.8	25.8
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)