

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: P647093

Luminaire Tested: **GALN-SA8C-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647093
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-SA8C-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46390.4 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

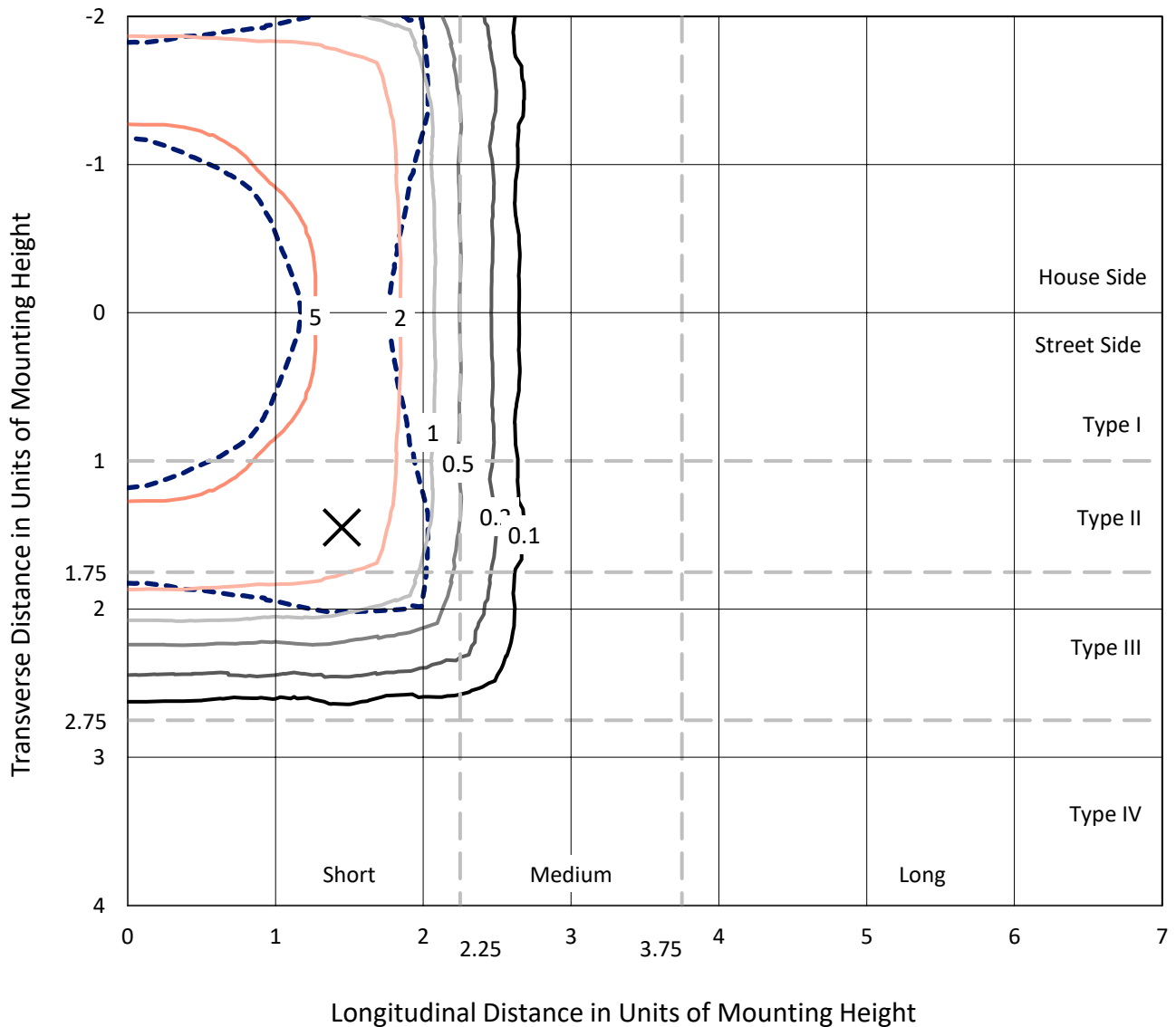
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

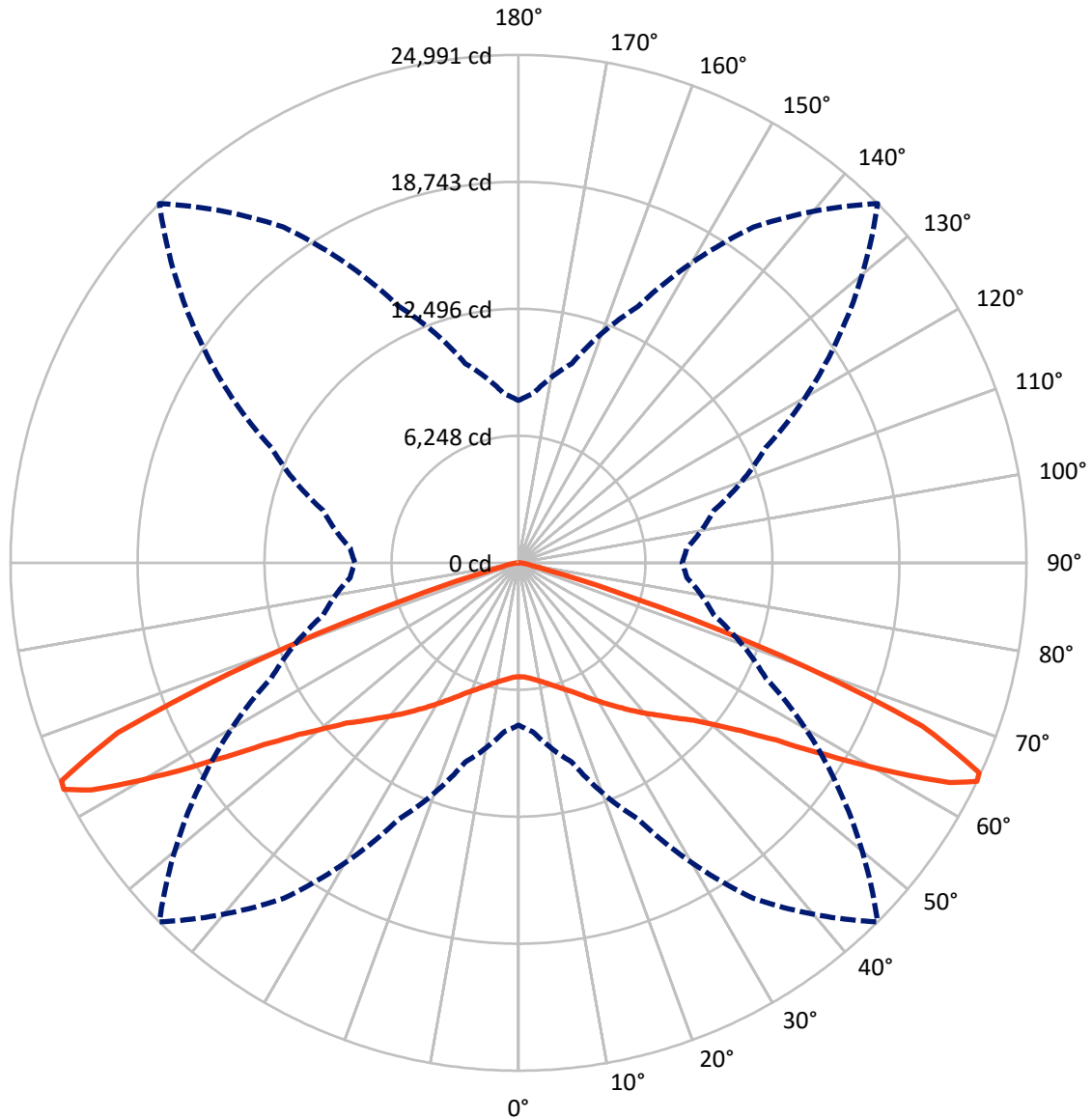
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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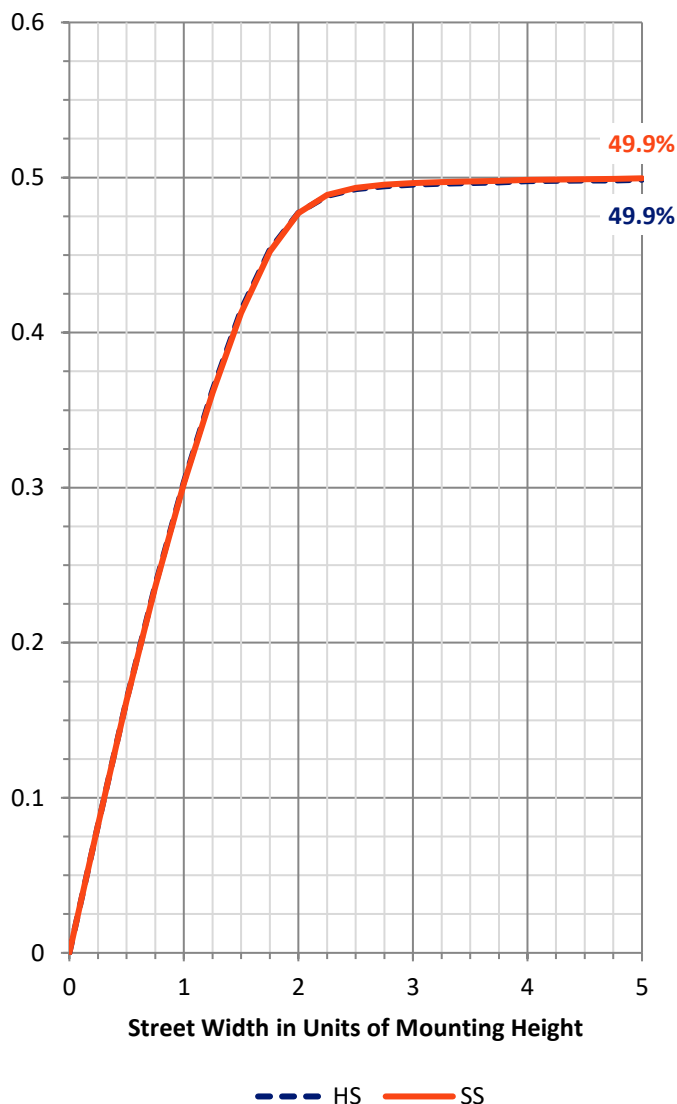
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23195.2	0.0	23195.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23195.2	0.0	23195.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	46390.4	0.0	46390.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.9	1.2
10°-20°	1776.9	3.8
20°-30°	3357.8	7.2
30°-40°	5560.8	12.0
40°-50°	8681.4	18.7
50°-60°	13421.2	28.9
60°-70°	11572.9	24.9
70°-80°	1311.5	2.8
80°-90°	157.1	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°	46390.4	100.0
0°-180°	46390.4	100.0

Coefficient of Utilization



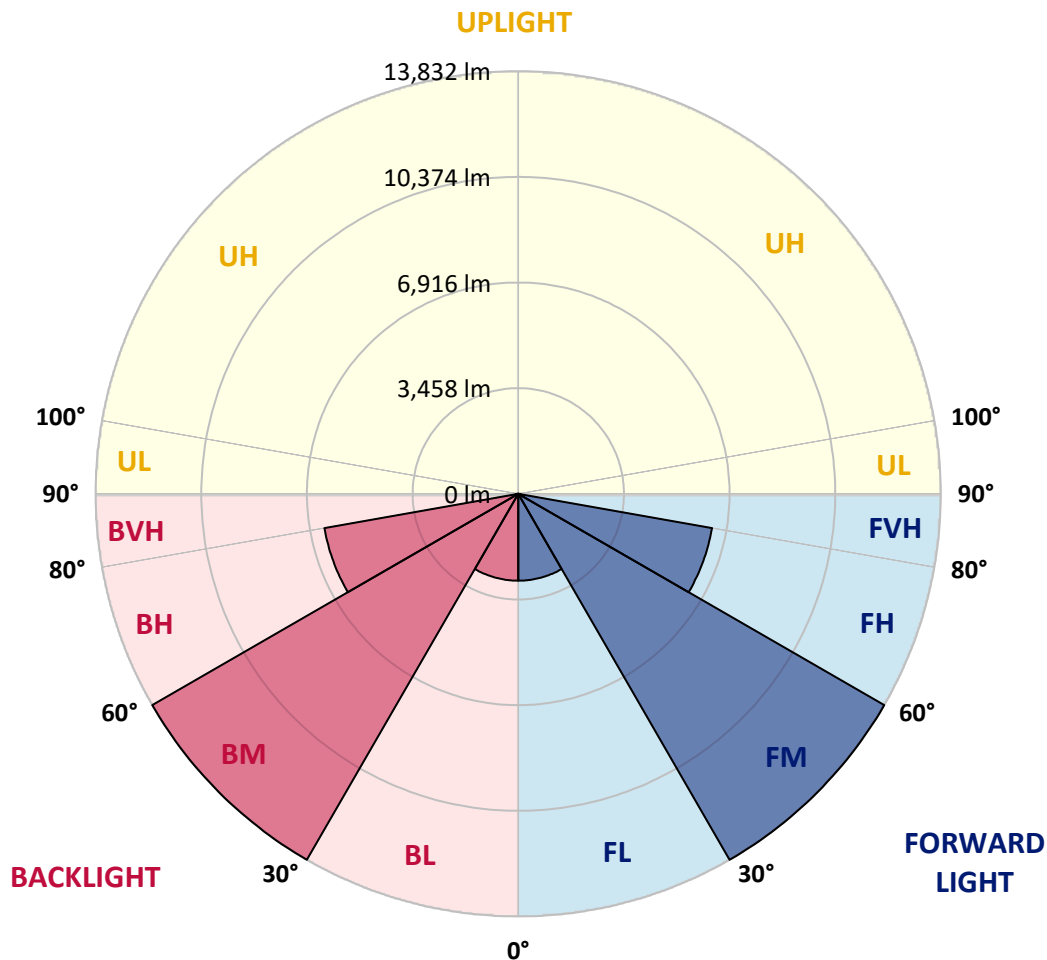
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2842.7	6.1			
FM (30°-60°)	13831.7	29.8			
FH (60°-80°)	6442.2	13.9			G3/7500
FVH (80°-90°)	78.6	0.2			G1/100
BL (0°-30°)	2842.7	6.1	B4/5000		
BM (30°-60°)	13831.7	29.8	B5		
BH (60°-80°)	6442.2	13.9	B5		G3/7500
BVH (80°-90°)	78.6	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°	5607.1	5607.1	5607.1	5607.1	5607.1	5607.1	5607.1	5607.1	5607.1	5607.1	5607.1
2.5°	5629.1	5641.4	5631.6	5629.1	5626.7	5626.7	5626.7	5629.1	5639.0	5646.4	5641.4
5°	5700.4	5710.3	5705.3	5702.9	5700.4	5702.9	5698.0	5695.5	5702.9	5702.9	5700.4
7.5°	5788.9	5801.2	5796.2	5801.2	5803.6	5806.1	5793.8	5783.9	5781.5	5788.9	5783.9
10°	5909.3	5919.1	5921.6	5924.0	5929.0	5926.4	5911.7	5894.5	5892.1	5889.6	5887.1
12.5°	6044.4	6051.8	6054.2	6064.1	6071.5	6073.9	6056.7	6041.9	6017.4	6022.3	6012.5
15°	6196.7	6211.5	6209.0	6223.8	6243.4	6248.3	6231.2	6206.6	6184.4	6172.2	6164.8
17.5°	6383.5	6393.4	6388.4	6403.1	6427.7	6440.0	6425.3	6393.4	6371.2	6344.2	6329.5
20°	6604.6	6621.8	6626.8	6626.8	6648.8	6661.1	6639.1	6629.2	6594.8	6575.2	6562.9
22.5°	6855.2	6862.6	6877.4	6892.1	6914.2	6909.3	6901.9	6887.2	6855.2	6838.1	6818.4
25°	7137.8	7145.2	7182.1	7214.0	7221.4	7216.4	7206.7	7199.2	7169.8	7130.5	7115.7
27.5°	7467.1	7481.8	7531.0	7560.4	7560.4	7562.9	7543.3	7567.8	7504.0	7457.2	7452.4
30°	7879.9	7889.7	7931.5	7960.9	7946.2	7933.9	7929.0	7953.6	7884.8	7801.3	7781.6
32.5°	8287.7	8322.1	8359.0	8422.9	8371.3	8349.1	8344.3	8361.4	8282.8	8189.5	8162.5
35°	8725.1	8749.6	8818.5	8872.5	8825.8	8774.2	8796.4	8850.4	8757.1	8631.7	8626.8
37.5°	9209.2	9231.3	9319.7	9376.2	9341.8	9253.3	9290.2	9354.1	9260.8	9106.0	9074.0
40°	9712.9	9759.5	9870.1	9929.1	9872.5	9754.6	9823.4	9892.2	9808.6	9629.3	9558.1
42.5°	10278.0	10351.7	10511.4	10540.9	10432.8	10273.0	10393.5	10504.0	10445.1	10238.7	10211.7
45°	10938.9	10983.1	11179.8	11243.6	11093.7	10894.7	11044.6	11246.1	11201.8	10963.5	10911.9
47.5°	11678.5	11720.3	11924.2	12020.1	11830.8	11563.0	11833.3	12096.2	12069.2	11813.7	11789.1
50°	12553.2	12563.1	12845.6	12953.7	12764.5	12533.6	12774.3	13101.2	12993.0	12666.3	12661.3
52.5°	13511.5	13523.7	13880.1	14088.9	13983.3	13722.8	14007.8	14206.8	13931.7	13504.1	13472.1
55°	14342.0	14403.4	14889.9	15445.2	15590.2	15401.0	15487.0	15393.6	14715.5	14115.9	14022.6
57.5°	14681.1	14801.4	15541.1	16577.9	17521.4	17801.6	17138.1	16248.7	15027.5	14179.8	14088.9
60°	13853.0	13983.3	15130.7	17098.8	19506.8	20723.0	18858.1	16393.7	14317.4	13125.7	12983.2
62.5°	11093.7	11130.6	12818.6	15872.7	20664.1	23814.0	19582.9	15157.7	12251.0	10631.8	10575.3
64°	7983.1	8361.4	10150.2	13916.9	20157.9	24991.0	19165.3	13425.5	9951.1	8312.3	8047.0
65°	5970.7	6073.9	8182.1	11884.9	19265.9	24902.5	18354.4	11769.4	8241.1	6361.4	6066.5
67.5°	2255.6	2267.9	3019.7	5924.0	13715.4	21425.8	14007.8	6403.1	3471.8	2511.2	2420.3
70°	936.2	953.4	1108.2	1992.7	5894.5	13757.2	6754.5	2309.7	1270.3	1029.5	1014.8
72.5°	685.5	695.4	742.0	884.6	1813.3	5648.8	2221.2	980.4	744.5	665.9	658.5
75°	538.1	543.0	577.4	651.1	845.2	1565.1	923.9	673.2	567.6	511.1	506.1
77.5°	410.4	422.6	447.2	496.3	567.6	742.0	611.8	503.7	437.4	390.6	383.3
80°	282.6	297.3	344.0	363.6	380.9	481.6	417.7	380.9	341.5	285.0	267.8
82.5°	174.5	184.3	231.0	248.1	240.8	270.3	267.8	272.7	243.3	176.9	164.6
85°	90.9	95.8	125.3	130.2	120.4	110.6	137.6	159.7	149.9	100.8	98.3
87.5°	19.7	22.1	27.0	24.6	27.0	27.0	34.4	51.6	54.0	34.4	31.9
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)