

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: P647617

Luminaire Tested: **GALN-SA8D-835-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48826.3 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

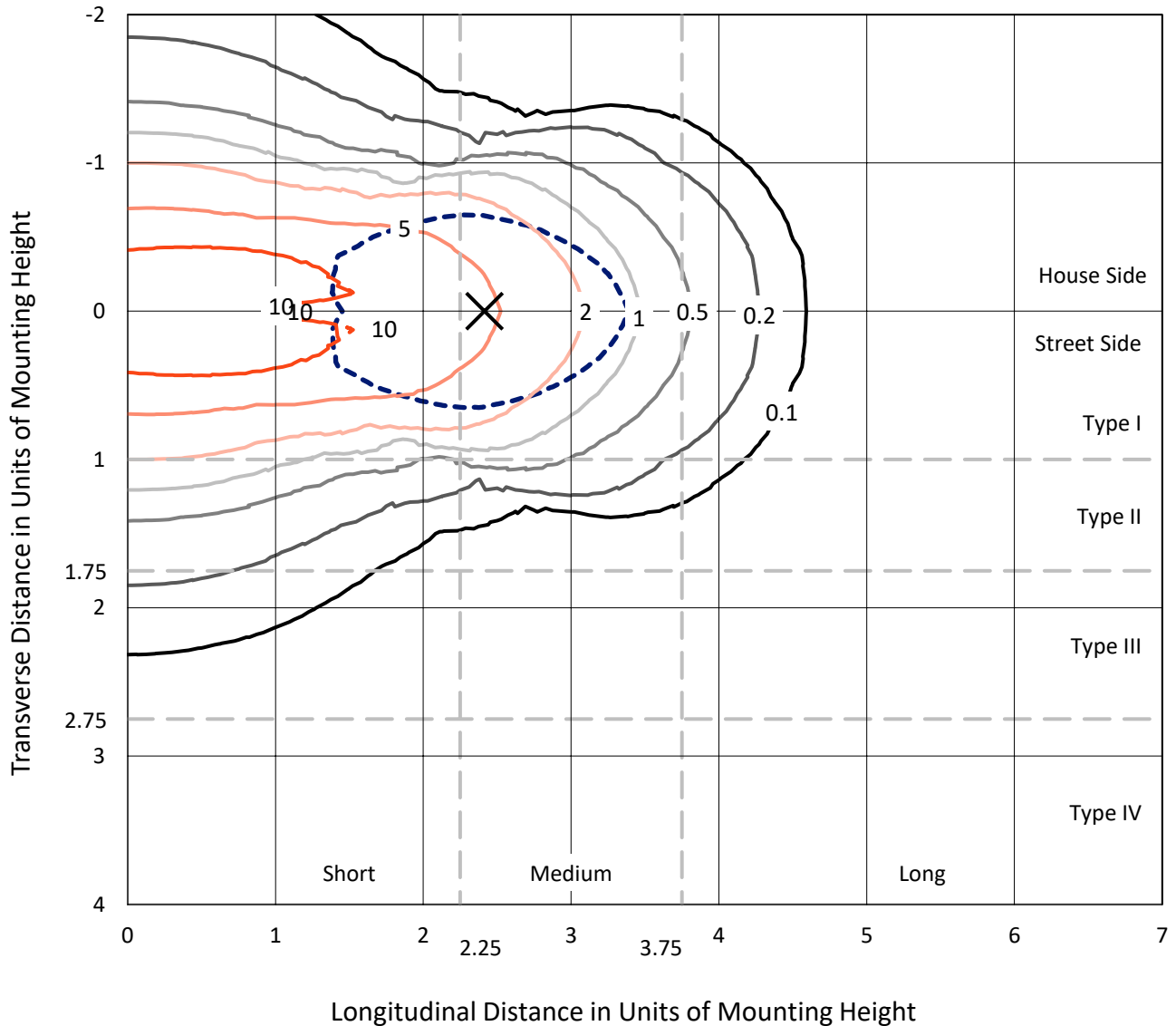
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

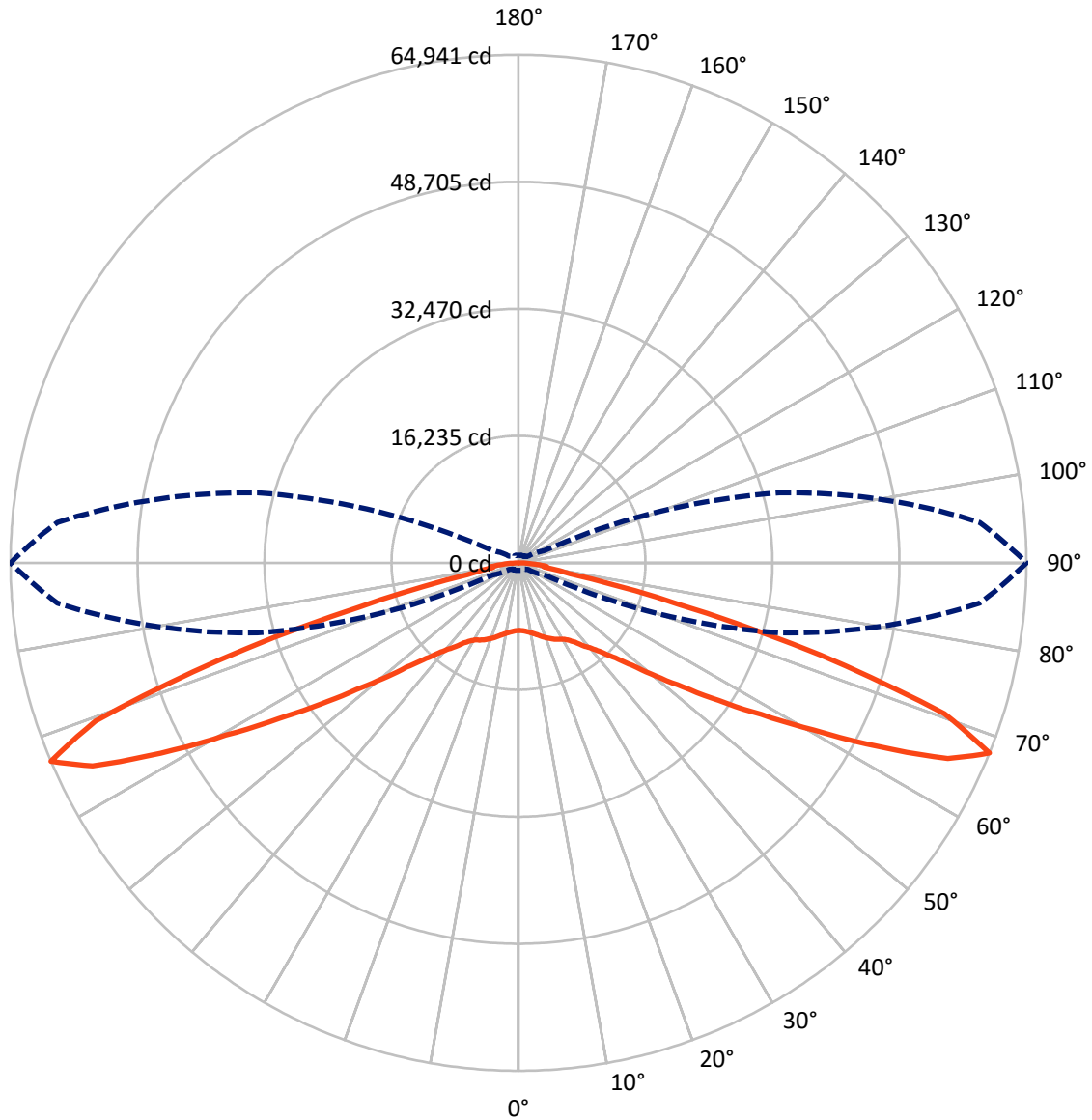
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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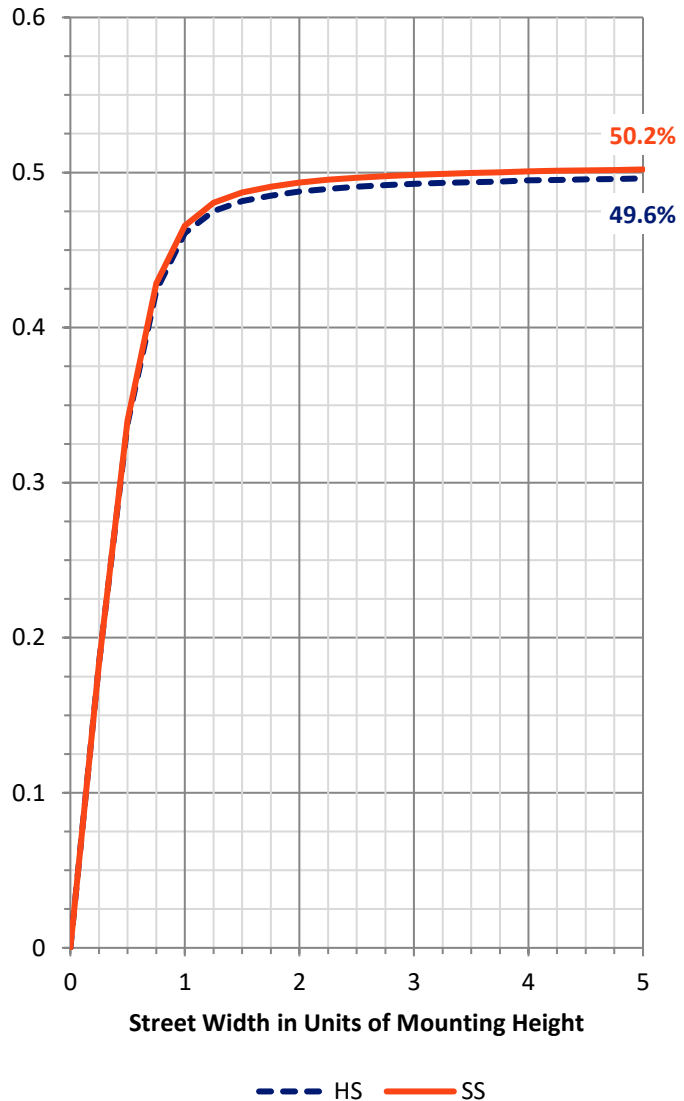
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24413.2	0.0	24413.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24413.2	0.0	24413.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	48826.3	0.0	48826.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.8	1.8
10°-20°	2757.2	5.6
20°-30°	4614.9	9.5
30°-40°	6252.0	12.8
40°-50°	7919.2	16.2
50°-60°	9893.1	20.3
60°-70°	11628.8	23.8
70°-80°	4448.6	9.1
80°-90°	450.7	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°	48826.3	100.0
0°-180°	48826.3	100.0

Coefficient of Utilization

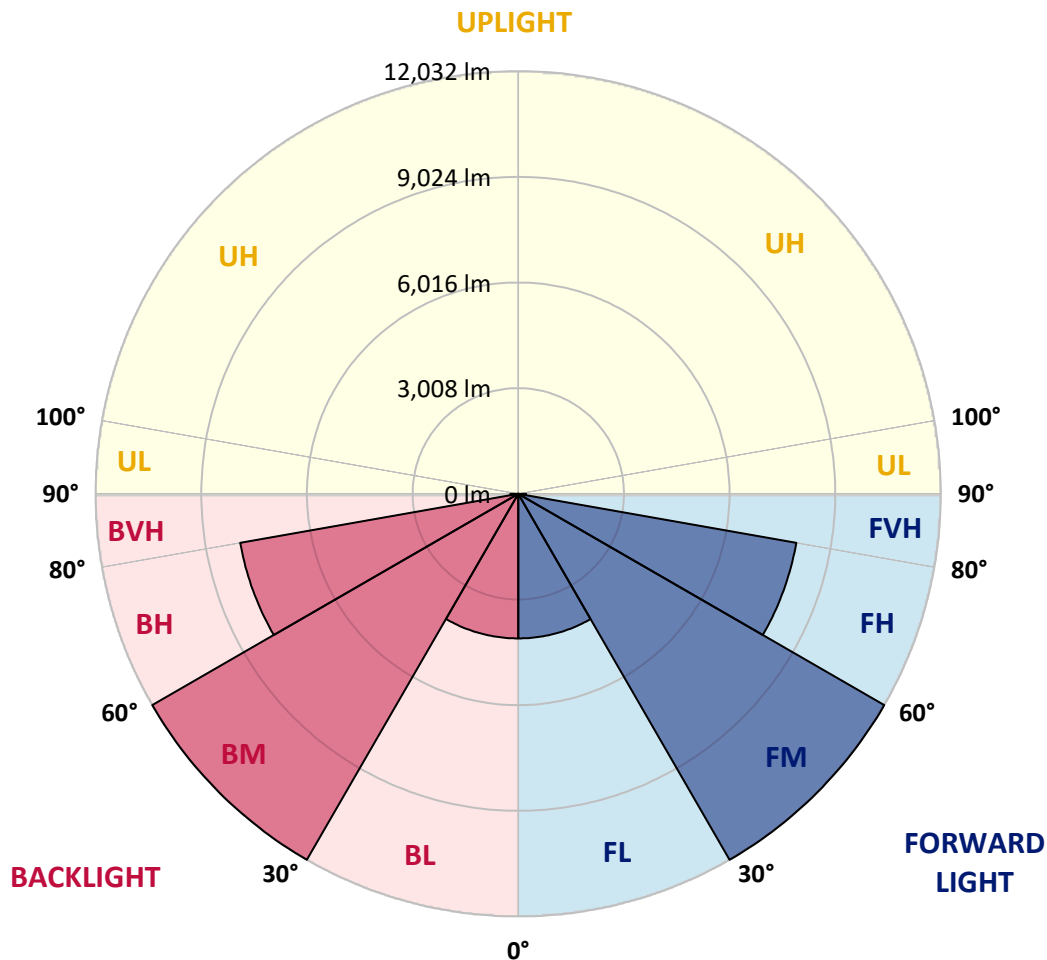


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4117.0	8.4			
FM (30°-60°)	12032.1	24.6			
FH (60°-80°)	8038.7	16.5			G4/12000
FVH (80°-90°)	225.3	0.5			G3/500
BL (0°-30°)	4117.0	8.4	B4/5000		
BM (30°-60°)	12032.1	24.6	B5		
BH (60°-80°)	8038.7	16.5	B5		G5
BVH (80°-90°)	225.3	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8643.8	8643.8	8643.8	8643.8	8643.8	8643.8	8643.8	8643.8	8643.8	8643.8	8643.8
2.5°	8754.6	8749.2	8751.9	8749.2	8757.3	8751.9	8719.5	8692.5	8670.8	8673.5	8665.4
5°	8941.2	8943.9	8946.6	8933.1	8952.0	8941.2	8889.8	8846.6	8803.3	8787.1	8781.7
7.5°	9095.3	9108.8	9116.9	9130.5	9162.9	9162.9	9135.9	9073.6	8979.1	8924.9	8922.3
10°	9249.4	9260.2	9284.6	9327.8	9381.9	9433.3	9422.5	9338.6	9216.9	9125.0	9103.4
12.5°	9303.4	9317.0	9398.1	9522.5	9644.1	9744.2	9744.2	9676.6	9519.8	9379.2	9338.6
15°	9114.2	9138.5	9284.6	9549.5	9868.5	10087.5	10136.2	10041.6	9873.9	9657.7	9609.0
17.5°	8738.4	8797.9	9011.5	9403.5	9933.5	10387.7	10528.3	10482.3	10266.0	9990.2	9933.5
20°	8335.6	8400.4	8627.6	9146.7	9879.3	10563.5	10971.7	10982.5	10714.8	10314.7	10230.8
22.5°	7892.2	7940.8	8232.8	8841.2	9717.2	10603.9	11352.9	11539.5	11177.2	10639.1	10520.2
25°	7394.7	7448.8	7754.3	8411.2	9411.7	10558.0	11701.7	12112.6	11661.1	10985.2	10833.8
27.5°	6918.8	6940.4	7267.6	7935.4	9008.8	10439.0	11958.5	12639.9	12196.5	11271.8	11079.8
30°	6461.9	6513.2	6802.5	7462.2	8546.4	10206.6	12180.3	13240.1	12772.4	11571.9	11325.9
32.5°	5977.9	6040.1	6353.7	7021.6	8084.1	9857.7	12315.4	13897.1	13575.3	12058.6	11796.3
35°	5512.9	5553.4	5869.8	6518.6	7632.6	9452.2	12339.8	14638.0	14610.9	12796.6	12447.9
37.5°	5037.0	5096.5	5415.5	6037.4	7154.0	9022.3	12218.1	15424.7	15860.0	13821.4	13445.6
40°	4580.1	4631.4	4945.1	5572.4	6610.6	8497.7	11928.8	16143.9	17317.3	14875.8	14343.2
42.5°	4082.6	4096.1	4439.5	5077.6	6078.0	7889.4	11512.4	16784.7	18942.3	16289.9	15627.5
45°	3517.5	3552.7	3871.7	4499.0	5466.9	7208.1	10947.4	17314.6	21002.5	18250.1	17347.1
47.5°	2952.5	2982.2	3274.2	3893.3	4799.1	6426.7	10076.7	17779.7	23116.7	20740.2	19556.0
50°	2400.9	2417.1	2655.1	3203.9	4047.5	5604.8	8998.0	17928.4	25506.9	24265.9	22754.4
52.5°	1898.0	1922.3	2103.5	2533.4	3244.4	4634.2	7832.7	17560.7	28297.1	28445.8	26315.3
55°	1538.4	1546.5	1681.7	1998.1	2536.1	3617.5	6426.7	16535.9	31298.2	33801.9	31084.6
57.5°	1324.8	1330.2	1406.0	1581.7	1952.1	2728.1	4985.7	14597.4	33993.8	40077.2	36584.0
60°	1203.2	1205.8	1249.1	1351.8	1546.5	2092.6	3571.6	11861.2	36654.3	47060.9	43419.0
62.5°	1127.4	1127.4	1157.2	1214.0	1308.6	1606.0	2587.4	8557.3	38476.5	54147.3	51843.8
65°	1054.5	1054.5	1076.1	1116.6	1168.0	1314.0	1911.5	5580.4	38430.6	59308.7	60317.2
67.5°	970.6	970.6	986.9	1027.4	1057.1	1130.2	1476.2	3655.4	34521.1	59195.1	64940.5
70°	870.6	870.6	892.2	927.4	951.7	997.7	1165.3	2500.9	25360.8	50543.3	57754.1
72.5°	770.6	773.3	786.8	821.9	840.9	867.9	967.9	1752.0	15557.2	34415.6	40382.7
75°	659.7	665.1	678.6	713.8	730.0	740.8	816.5	1249.1	7870.5	18555.6	21126.8
77.5°	532.6	543.5	551.5	589.4	600.2	616.5	673.2	903.0	3455.4	6667.3	6726.8
80°	389.3	402.9	427.2	462.4	470.4	481.2	513.7	640.8	1565.5	3044.4	3306.6
82.5°	286.6	305.5	275.8	321.7	321.7	308.2	362.3	429.9	719.2	3014.6	3606.7
85°	156.8	159.5	143.3	164.9	175.7	173.0	192.0	210.9	348.7	2011.5	2073.8
87.5°	37.8	40.6	43.2	51.4	62.2	62.2	67.6	59.5	113.5	651.6	373.1
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)