

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: P459022

Luminaire Tested: **GALN-SA5B-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459022
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-SA5B-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26498 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

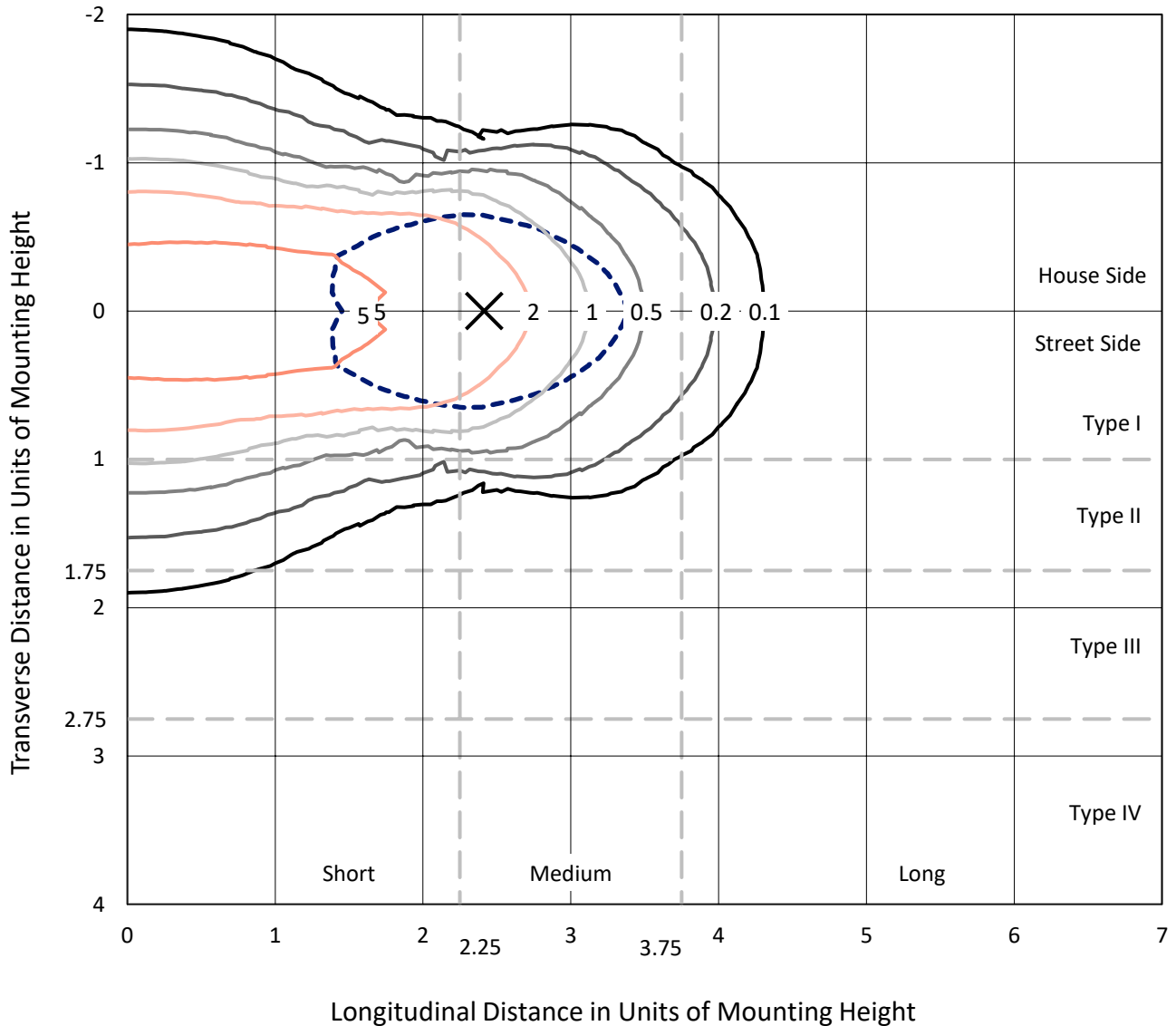
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

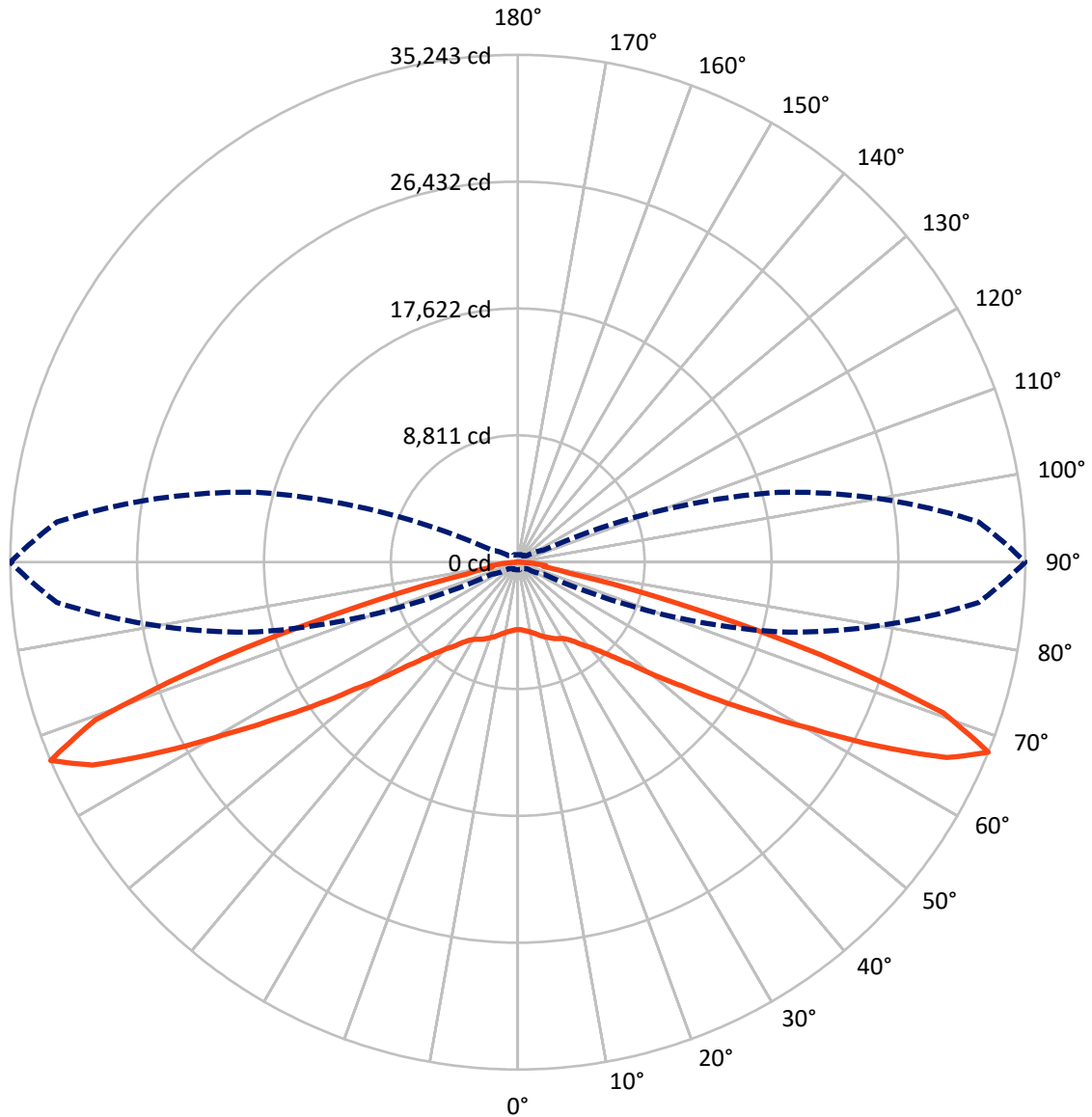
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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	13249.0	0.0	13249.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13249.0	0.0	13249.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26498.0	0.0	26498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.7	1.8
10°-20°	1496.4	5.6
20°-30°	2504.5	9.5
30°-40°	3393.0	12.8
40°-50°	4297.7	16.2
50°-60°	5369.0	20.3
60°-70°	6311.0	23.8
70°-80°	2414.2	9.1
80°-90°	244.6	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°	26498.0	100.0
0°-180°	26498.0	100.0

Coefficient of Utilization



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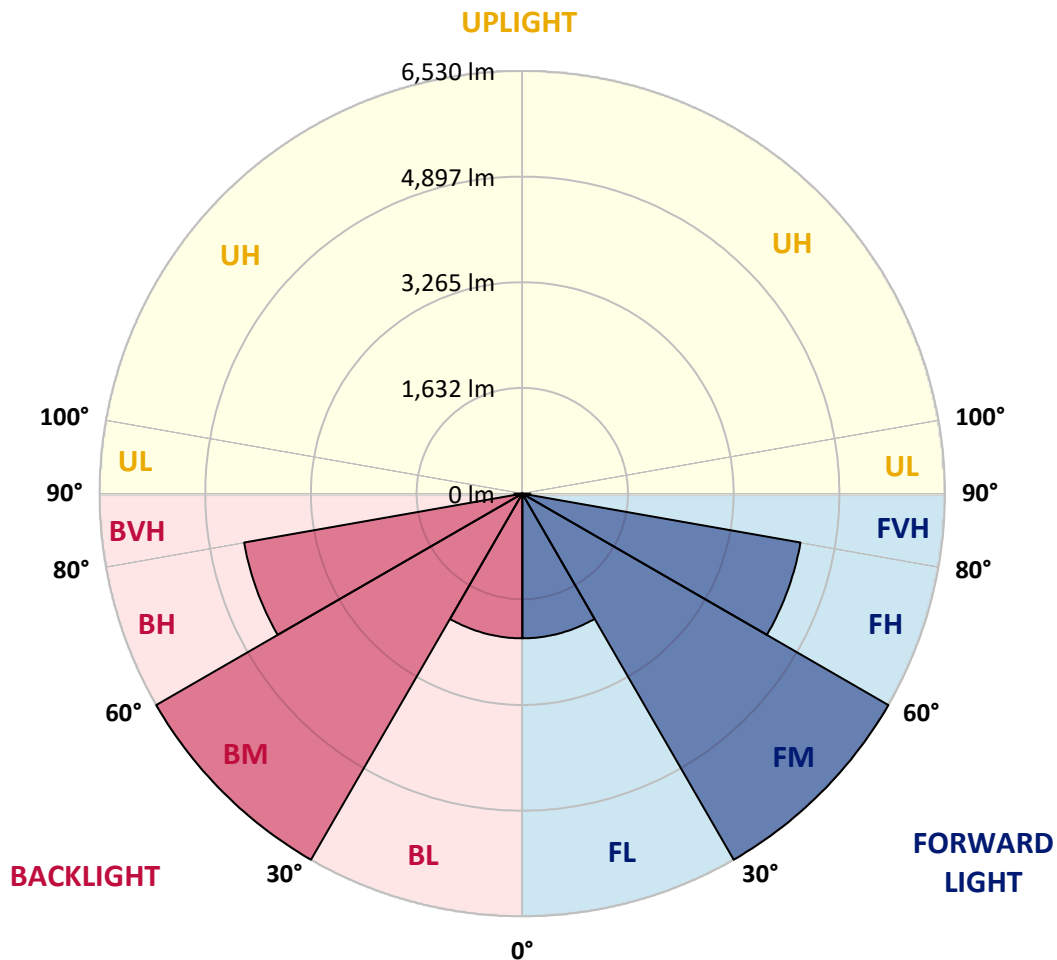
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2234.3	8.4			
FM (30°-60°)	6529.8	24.6			
FH (60°-80°)	4362.6	16.5			G2/5000
FVH (80°-90°)	122.3	0.5			G2/225
BL (0°-30°)	2234.3	8.4	B3/2500		
BM (30°-60°)	6529.8	24.6	B4/8500		
BH (60°-80°)	4362.6	16.5	B4/5000		G4/5000
BVH (80°-90°)	122.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4691.0	4691.0	4691.0	4691.0	4691.0	4691.0	4691.0	4691.0	4691.0	4691.0	4691.0
2.5°	4751.1	4748.2	4749.7	4748.2	4752.6	4749.7	4732.1	4717.4	4705.6	4707.1	4702.7
5°	4852.4	4853.8	4855.3	4848.0	4858.2	4852.4	4824.5	4801.0	4777.5	4768.7	4765.8
7.5°	4936.0	4943.3	4947.7	4955.1	4972.7	4972.7	4958.0	4924.3	4872.9	4843.6	4842.1
10°	5019.6	5025.5	5038.7	5062.2	5091.5	5119.4	5113.6	5068.1	5002.0	4952.2	4940.4
12.5°	5049.0	5056.3	5100.3	5167.8	5233.9	5288.2	5288.2	5251.5	5166.4	5090.1	5068.1
15°	4946.3	4959.5	5038.7	5182.5	5355.7	5474.5	5500.9	5449.6	5358.6	5241.2	5214.8
17.5°	4742.3	4774.6	4890.5	5103.3	5390.9	5637.4	5713.7	5688.7	5571.4	5421.7	5390.9
20°	4523.7	4558.9	4682.2	4963.9	5361.5	5732.8	5954.3	5960.2	5814.9	5597.8	5552.3
22.5°	4283.1	4309.5	4467.9	4798.1	5273.5	5754.8	6161.2	6262.5	6065.8	5773.8	5709.3
25°	4013.1	4042.4	4208.2	4564.8	5107.7	5729.8	6350.5	6573.5	6328.5	5961.7	5879.5
27.5°	3754.8	3766.6	3944.1	4306.5	4889.1	5665.3	6489.9	6859.6	6619.0	6117.2	6013.0
30°	3506.9	3534.7	3691.7	4049.8	4638.1	5539.1	6610.2	7185.4	6931.5	6280.1	6146.5
32.5°	3244.2	3278.0	3448.2	3810.6	4387.2	5349.8	6683.6	7541.9	7367.3	6544.2	6401.8
35°	2991.8	3013.8	3185.5	3537.7	4142.2	5129.7	6696.8	7944.0	7929.3	6944.8	6755.5
37.5°	2733.6	2765.9	2939.0	3276.5	3882.5	4896.4	6630.7	8371.0	8607.2	7500.9	7296.9
40°	2485.6	2513.5	2683.7	3024.1	3587.6	4611.7	6473.7	8761.3	9398.1	8073.1	7784.0
42.5°	2215.6	2223.0	2409.3	2755.6	3298.5	4281.6	6247.8	9109.0	10279.9	8840.5	8481.0
45°	1909.0	1928.0	2101.2	2441.6	2966.9	3911.8	5941.1	9396.6	11398.0	9904.3	9414.2
47.5°	1602.3	1618.4	1776.9	2112.9	2604.5	3487.8	5468.6	9649.0	12545.4	11255.7	10613.0
50°	1303.0	1311.8	1440.9	1738.8	2196.6	3041.7	4883.2	9729.7	13842.5	13169.1	12348.8
52.5°	1030.0	1043.3	1141.6	1374.9	1760.8	2515.0	4250.8	9530.1	15356.8	15437.5	14281.3
55°	834.9	839.3	912.7	1084.3	1376.3	1963.3	3487.8	8974.0	16985.5	18344.2	16869.6
57.5°	719.0	721.9	763.0	858.4	1059.4	1480.5	2705.7	7922.0	18448.4	21749.8	19854.1
60°	653.0	654.4	677.9	733.7	839.3	1135.7	1938.3	6437.1	19892.2	25539.9	23563.4
62.5°	611.9	611.9	628.0	658.8	710.2	871.6	1404.2	4644.0	20881.2	29385.7	28135.6
65°	572.2	572.2	584.0	606.0	633.9	713.1	1037.4	3028.5	20856.3	32186.8	32734.1
67.5°	526.8	526.8	535.6	557.6	573.7	613.3	801.1	1983.8	18734.5	32125.2	35243.2
70°	472.5	472.5	484.2	503.3	516.5	541.4	632.4	1357.3	13763.3	27429.8	31343.1
72.5°	418.2	419.6	427.0	446.1	456.3	471.0	525.3	950.8	8442.9	18677.3	21915.7
75°	358.0	361.0	368.3	387.4	396.2	402.0	443.1	677.9	4271.3	10070.1	11465.5
77.5°	289.1	294.9	299.3	319.9	325.7	334.5	365.4	490.1	1875.2	3618.4	3650.7
80°	211.3	218.6	231.8	250.9	255.3	261.2	278.8	347.8	849.6	1652.2	1794.5
82.5°	155.5	165.8	149.7	174.6	174.6	167.3	196.6	233.3	390.3	1636.0	1957.4
85°	85.1	86.6	77.8	89.5	95.4	93.9	104.2	114.4	189.3	1091.7	1125.4
87.5°	20.5	22.0	23.5	27.9	33.7	33.7	36.7	32.3	61.6	353.6	202.5
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)