

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: P951356

Luminaire Tested: **GALN-SB5C-740-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-740-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40560 lumens
Efficiency: N/A
Efficacy: 162.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

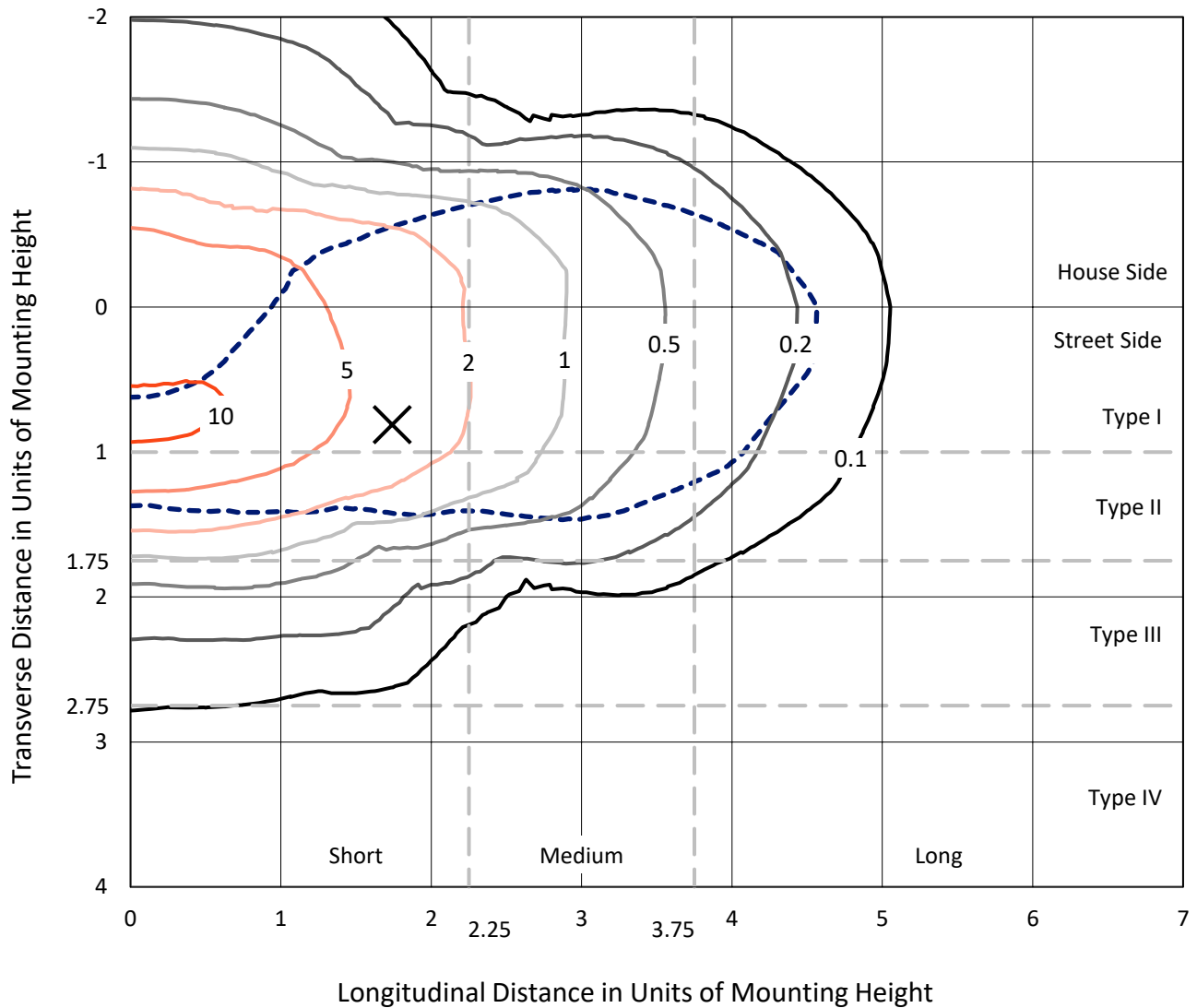
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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 = 11.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12799.0	0.0	12799.0
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	27761.0	0.0	27761.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	40560.0	0.0	40560.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	445.6	1.1
10°-20°	1511.1	3.7
20°-30°	3063.9	7.6
30°-40°	5302.0	13.1
40°-50°	8023.6	19.8
50°-60°	9407.2	23.2
60°-70°	7886.8	19.4
70°-80°	4354.2	10.7
80°-90°	565.6	1.4
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°	40560.0	100.0
0°-180°	40560.0	100.0

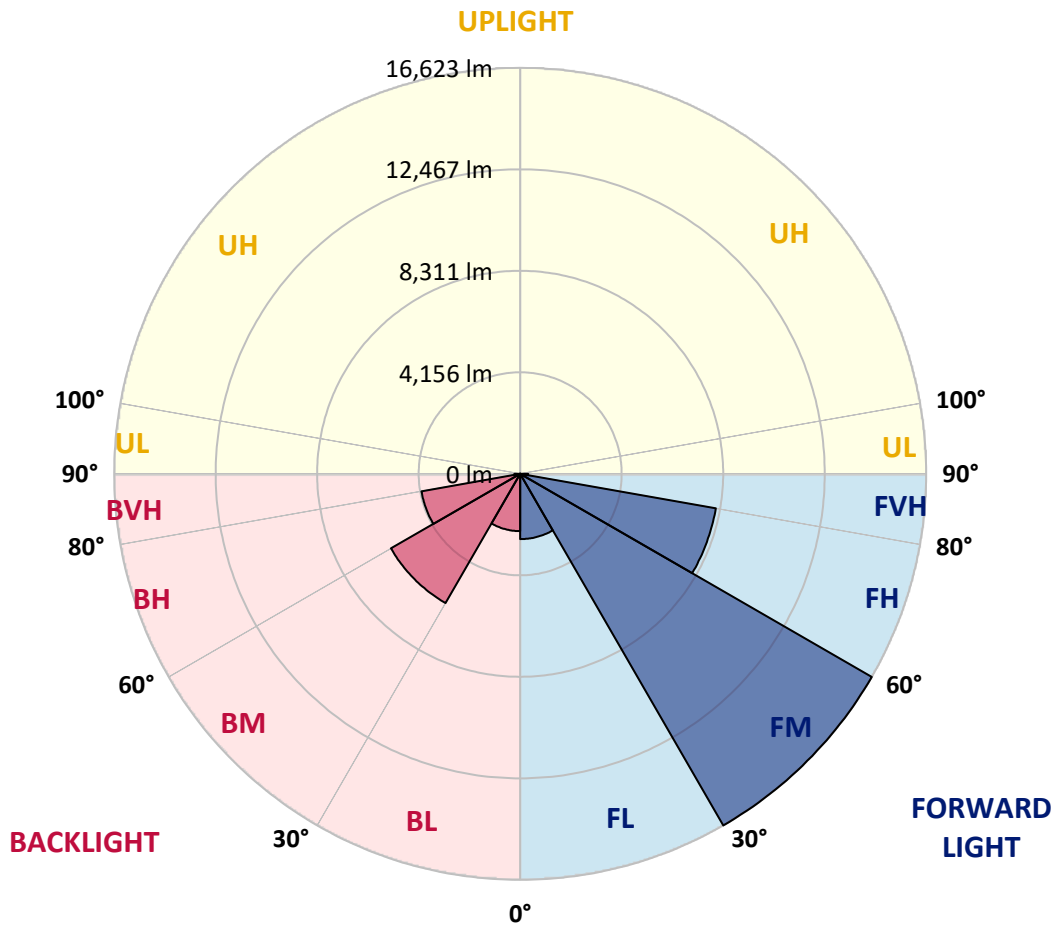


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2673.4	6.6			
FM (30°-60°)	16622.8	41.0			
FH (60°-80°)	8135.1	20.1			G4/12000
FVH (80°-90°)	329.6	0.8			G3/500
BL (0°-30°)	2347.2	5.8	B3/2500		
BM (30°-60°)	6110.0	15.1	B4/8500		
BH (60°-80°)	4105.8	10.1	B4/5000		G4/5000
BVH (80°-90°)	235.9	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5
2.5°	4440.1	4427.5	4438.0	4438.0	4442.2	4440.1	4454.8	4459.0	4465.3	4478.0
5°	4395.9	4393.8	4412.7	4429.6	4446.4	4461.1	4480.1	4507.4	4511.6	4526.4
7.5°	4381.2	4368.5	4398.0	4419.0	4459.0	4494.8	4545.3	4591.6	4610.5	4616.8
10°	4494.8	4473.7	4501.1	4513.7	4547.4	4583.2	4642.1	4715.7	4736.8	4762.0
12.5°	4688.4	4665.2	4705.2	4724.2	4755.7	4787.3	4827.3	4898.8	4909.3	4955.6
15°	4953.5	4926.2	4951.4	4974.6	5027.2	5056.6	5096.6	5166.1	5166.1	5201.8
17.5°	5313.4	5277.6	5296.5	5304.9	5338.6	5382.8	5450.1	5511.2	5542.7	5530.1
20°	5850.0	5805.8	5805.8	5763.7	5751.1	5786.8	5875.2	5959.4	5993.1	5927.8
22.5°	6655.9	6592.8	6557.0	6413.9	6357.1	6361.3	6449.7	6552.8	6580.2	6464.4
25°	7680.7	7581.8	7533.4	7323.0	7194.6	7083.1	7152.5	7285.1	7323.0	7179.9
27.5°	8705.5	8711.8	8665.5	8413.0	8200.5	7996.3	7960.6	8099.5	8139.4	7977.4
30°	10142.7	9993.3	9904.9	9601.9	9298.9	9012.7	8865.4	8922.2	8932.8	8739.2
32.5°	11382.2	11344.3	11154.9	10889.8	10500.5	10052.2	9806.0	9715.6	9698.7	9423.1
35°	12794.2	12773.1	12573.2	12257.6	11836.7	11213.8	10769.8	10511.0	10489.9	10102.8
37.5°	14229.3	14229.3	14033.6	13688.5	13252.9	12474.3	11798.8	11388.5	11321.1	10816.1
40°	15374.0	15304.6	15340.4	15195.2	14696.4	13869.5	12941.5	12345.9	12255.5	11649.4
42.5°	16024.3	16001.1	16215.7	16377.8	16173.7	15512.9	14199.8	13383.4	13257.1	12566.9
45°	16169.5	16144.2	16527.2	17120.6	17406.8	17135.3	15567.6	14475.5	14321.9	13526.4
47.5°	15834.9	15784.4	16346.2	17282.6	18200.1	18677.8	17049.0	15660.2	15437.2	14460.8
50°	14829.0	14780.6	15630.8	16874.4	18467.3	19725.7	18656.7	16916.5	16575.6	15462.4
52.5°	12642.6	12665.8	13997.8	15706.5	18115.9	20378.1	20041.4	18240.1	17829.7	16487.2
55°	9848.1	9898.6	11535.8	13417.0	16710.3	20279.2	20986.2	19603.7	19195.4	17451.0
57.5°	7051.5	7274.6	8808.6	10670.9	14010.4	18711.4	21192.4	20899.9	20504.3	18503.1
60°	4570.5	4610.5	6188.8	8065.8	10668.8	15925.4	20773.7	21882.6	21573.3	19576.3
62.5°	2929.2	2956.5	3918.2	5641.6	7678.6	11782.0	19363.8	22309.8	22215.1	20285.5
65°	2152.7	2131.7	2632.5	3728.8	5172.4	7266.2	16626.1	22103.6	22290.9	20729.5
67.5°	1797.1	1767.6	2013.8	2582.0	3810.9	4126.5	12301.7	20763.1	21449.1	20679.0
70°	1637.1	1611.9	1761.3	1917.0	2973.4	2762.9	6201.4	18050.7	19107.1	20104.5
72.5°	1386.7	1342.5	1546.7	1702.4	2312.6	2119.0	2563.0	13865.2	15153.1	18263.2
75°	1075.3	1045.8	1220.5	1498.3	1738.2	1654.0	1620.3	8419.3	9825.0	14124.1
77.5°	852.2	812.3	972.2	1167.9	1563.5	1247.9	1180.5	3625.7	5018.8	9016.9
80°	641.8	606.0	738.6	923.8	1201.6	940.6	763.9	1479.3	1891.8	4568.4
82.5°	456.6	425.1	515.6	677.6	808.1	843.8	469.3	829.1	932.2	1761.3
85°	292.5	273.6	345.1	425.1	513.4	542.9	286.2	433.5	475.6	726.0
87.5°	159.9	130.5	185.2	197.8	237.8	216.7	136.8	157.8	170.4	263.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
4469.5	0°	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5	4469.5
4478.0	2.5°	4486.4	4492.7	4513.7	4520.0	4534.8	4553.7	4566.3	4579.0	4579.0	4591.6
4545.3	5°	4547.4	4562.1	4606.3	4629.5	4667.3	4705.2	4728.4	4755.7	4772.6	4781.0
4652.6	7.5°	4665.2	4688.4	4751.5	4791.5	4856.7	4909.3	4945.1	4983.0	4991.4	5014.6
4802.0	10°	4825.2	4852.5	4924.1	4999.8	5077.7	5142.9	5176.6	5203.9	5214.5	5218.7
4993.5	12.5°	5008.2	5048.2	5140.8	5233.4	5315.5	5372.3	5380.7	5374.4	5344.9	5319.7
5229.2	15°	5233.4	5269.2	5372.3	5473.3	5553.3	5563.8	5511.2	5477.5	5441.7	5435.4
5492.2	17.5°	5502.7	5521.7	5616.4	5715.3	5721.6	5685.8	5608.0	5576.4	5542.7	5519.6
5835.2	20°	5816.3	5810.0	5877.3	5919.4	5875.2	5765.8	5647.9	5595.3	5561.7	5534.3
6256.1	22.5°	6190.9	6142.5	6134.0	6123.5	6005.7	5776.3	5616.4	5549.0	5496.4	5458.6
6843.2	25°	6735.9	6550.7	6422.3	6350.8	6085.6	5719.5	5515.4	5366.0	5267.1	5201.8
7560.8	27.5°	7417.7	7106.2	6782.2	6607.5	6085.6	5603.8	5271.3	5029.3	4867.2	4799.9
8255.2	30°	8067.9	7741.7	7264.0	6916.8	6070.9	5414.4	4877.8	4541.1	4351.7	4284.4
8848.6	32.5°	8623.4	8267.8	7775.4	7255.6	6035.1	5107.1	4389.6	4017.1	3834.0	3754.1
9435.7	35°	9139.0	8760.2	8288.8	7628.1	5940.4	4656.8	3853.0	3568.9	3364.8	3236.4
10033.3	37.5°	9667.2	9216.8	8774.9	7964.8	5770.0	4130.7	3440.5	3198.5	2958.6	2786.1
10668.8	40°	10241.6	9702.9	9294.7	8164.7	5490.1	3629.9	3120.7	2899.7	2645.1	2462.0
11401.1	42.5°	10912.9	10285.8	9873.4	8267.8	5107.1	3274.3	2912.4	2695.6	2455.7	2306.3
12186.0	45°	11613.6	10927.6	10401.6	8265.7	4680.0	3108.1	2845.0	2630.4	2365.2	2209.5
12992.0	47.5°	12348.0	11598.9	10858.2	8131.0	4309.6	3131.2	2807.1	2489.4	2196.9	2045.4
13806.3	50°	13084.5	12333.3	11300.1	7878.5	4151.8	3080.7	2666.1	2291.6	1946.5	1809.7
14570.2	52.5°	13814.7	13114.0	11681.0	7518.7	3991.9	2893.4	2485.2	2034.9	1843.4	1748.7
15359.3	55°	14549.1	13886.3	12095.5	6994.7	3592.0	2674.6	2182.2	1938.1	1761.3	1675.0
16131.6	57.5°	15285.6	14778.5	12489.0	6470.7	3089.1	2405.2	2015.9	1820.2	1679.2	1605.6
16777.6	60°	16051.6	15799.1	12895.2	5988.8	2592.5	2060.1	1893.9	1725.5	1582.4	1500.4
17398.4	62.5°	16840.7	16922.8	13212.9	5368.1	2135.9	1849.7	1784.4	1611.9	1473.0	1395.2
17911.8	65°	17636.1	18006.5	13421.2	4507.4	1731.8	1649.8	1666.6	1487.7	1346.8	1279.4
18288.5	67.5°	18235.9	18787.2	13362.3	3411.1	1420.4	1460.4	1519.3	1357.3	1224.7	1172.1
18227.5	70°	18303.2	18694.6	12781.5	2335.8	1188.9	1275.2	1355.2	1228.9	1092.1	1054.3
17368.9	72.5°	17406.8	17432.0	11163.3	1525.6	1005.9	1119.5	1182.6	1098.4	965.9	928.0
15195.2	75°	15056.3	14416.6	8196.3	1005.9	841.7	961.7	1020.6	961.7	833.3	841.7
11369.5	77.5°	11407.4	10210.1	4976.7	715.5	702.8	808.1	888.0	845.9	736.5	827.0
5717.4	80°	5877.3	5523.8	2220.0	534.5	555.5	646.0	730.2	675.5	582.9	555.5
1277.3	82.5°	1346.8	1565.6	875.4	383.0	401.9	465.1	557.6	507.1	418.8	353.5
532.4	85°	471.4	515.6	387.2	239.9	235.7	290.4	378.8	338.8	284.1	227.3
225.2	87.5°	149.4	195.7	145.2	96.8	101.0	130.5	174.7	159.9	132.6	86.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
4469.5
4591.6
4785.2
5006.1
5208.1
5319.7
5435.4
5521.7
5536.4
5471.2
5227.1
4833.6
4324.3
3794.1
3278.5
2832.4
2497.8
2335.8
2234.8
2066.4
1818.1
1748.7
1666.6
1593.0
1494.1
1393.0
1277.3
1174.2
1056.4
925.9
812.3
728.1
507.1
349.3
239.9
90.5
0.0

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