

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: P652402

Luminaire Tested: **GALN-SA5B-840-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652402  
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-840-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23923.1 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

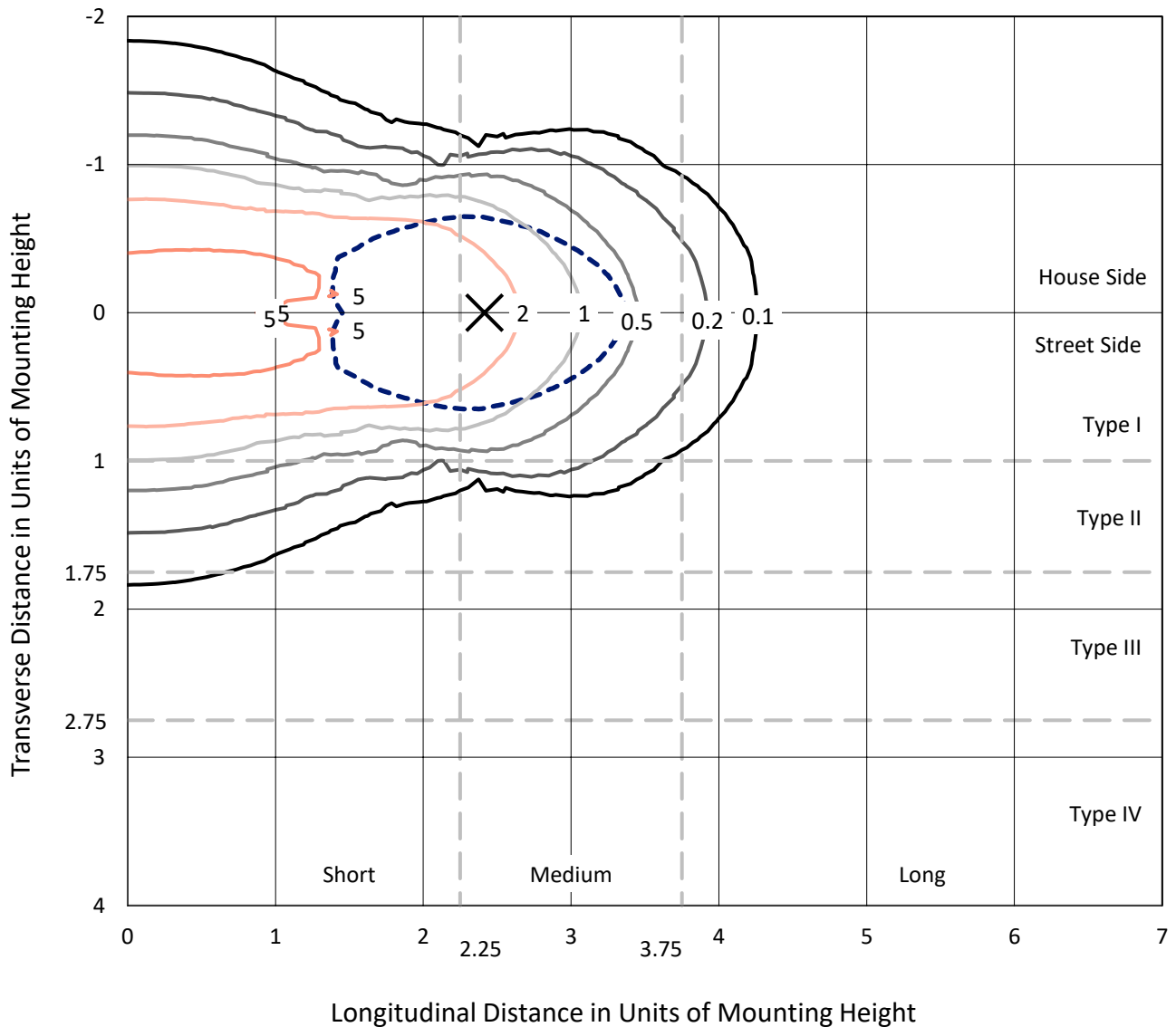
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

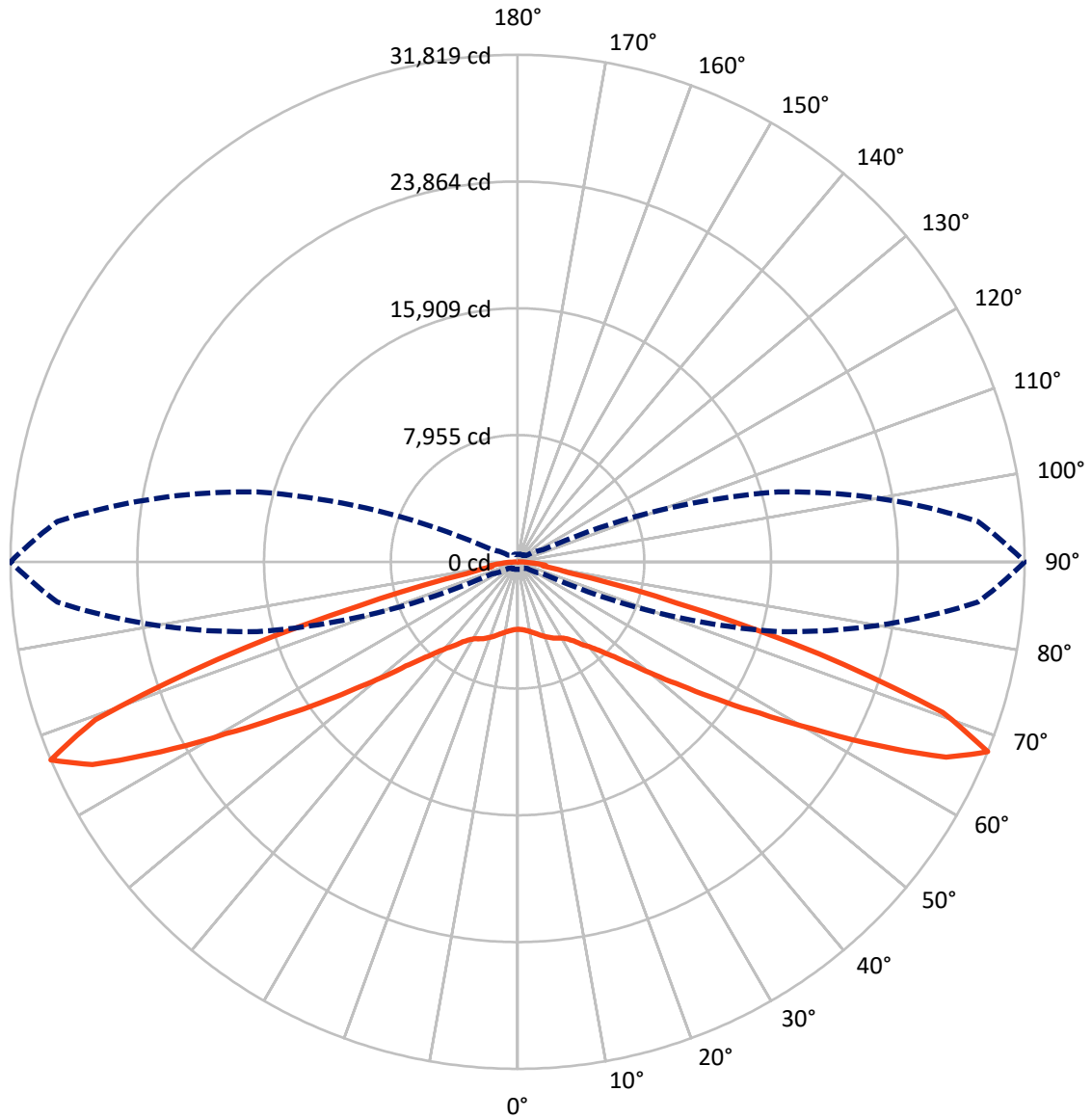
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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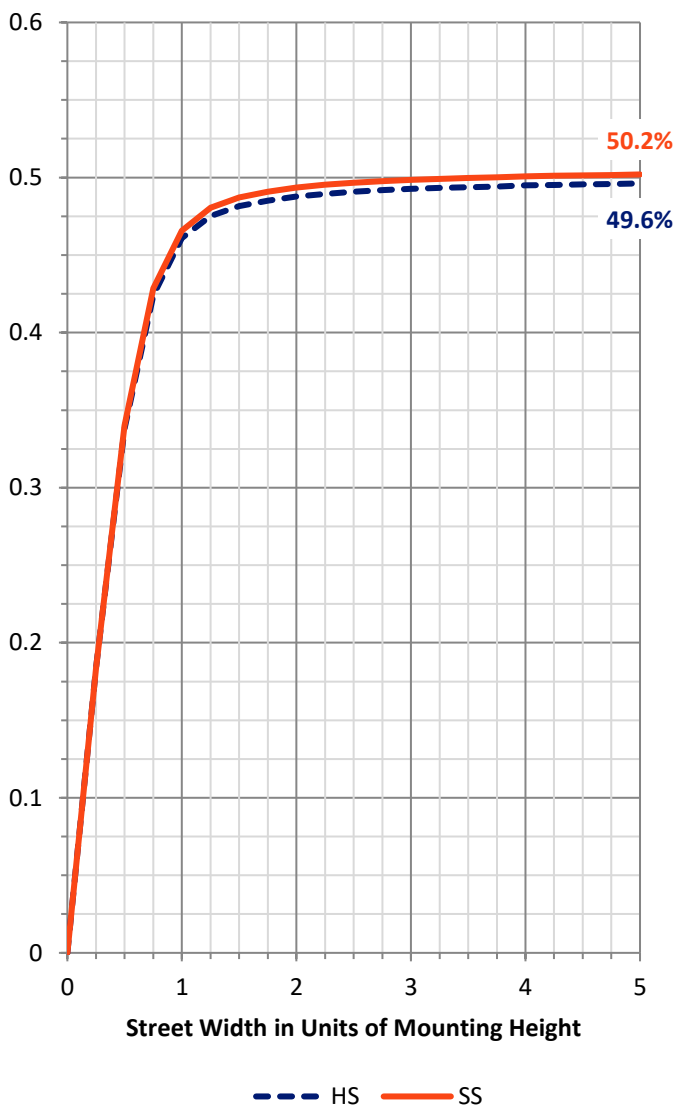
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11961.5	0.0	11961.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11961.5	0.0	11961.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23923.1	0.0	23923.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.2	1.8
10°-20°	1350.9	5.6
20°-30°	2261.1	9.5
30°-40°	3063.3	12.8
40°-50°	3880.1	16.2
50°-60°	4847.2	20.3
60°-70°	5697.7	23.8
70°-80°	2179.6	9.1
80°-90°	220.8	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°	23923.1	100.0
0°-180°	23923.1	100.0

**Coefficient of Utilization**

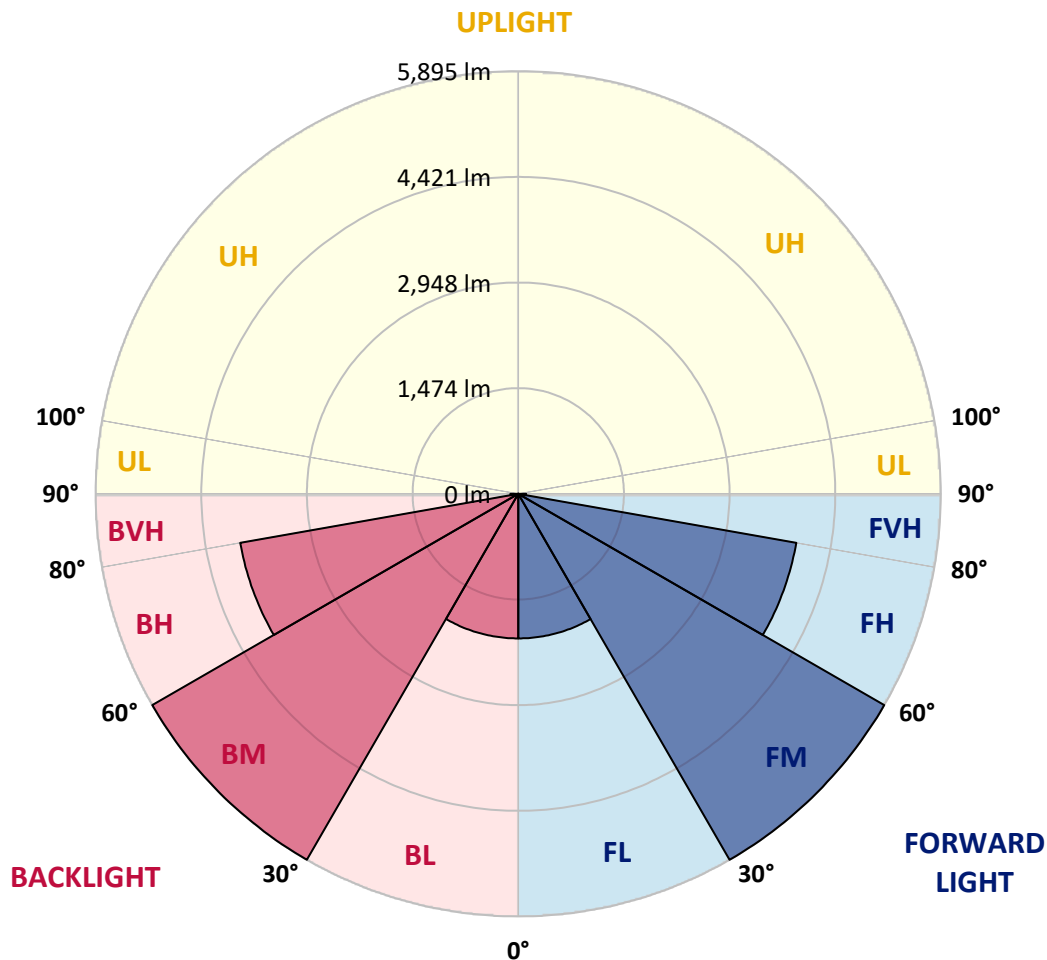


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2017.2	8.4			
FM (30°-60°)	5895.3	24.6			
FH (60°-80°)	3938.7	16.5			G2/5000
FVH (80°-90°)	110.4	0.5			G2/225
BL (0°-30°)	2017.2	8.4	B3/2500		
BM (30°-60°)	5895.3	24.6	B4/8500		
BH (60°-80°)	3938.7	16.5	B4/5000		G4/5000
BVH (80°-90°)	110.4	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°	4235.1	4235.1	4235.1	4235.1	4235.1	4235.1	4235.1	4235.1	4235.1	4235.1	4235.1
2.5°	4289.4	4286.8	4288.1	4286.8	4290.8	4288.1	4272.2	4259.0	4248.4	4249.7	4245.7
5°	4380.9	4382.2	4383.5	4376.9	4386.2	4380.9	4355.7	4334.5	4313.3	4305.3	4302.7
7.5°	4456.4	4463.0	4467.0	4473.6	4489.5	4489.5	4476.2	4445.8	4399.4	4372.9	4371.6
10°	4531.9	4537.2	4549.1	4570.2	4596.7	4622.0	4616.7	4575.5	4516.0	4470.9	4460.3
12.5°	4558.4	4564.9	4604.7	4665.7	4725.2	4774.3	4774.3	4741.1	4664.4	4595.5	4575.5
15°	4465.6	4477.6	4549.1	4678.9	4835.2	4942.6	4966.4	4920.0	4837.9	4731.9	4708.1
17.5°	4281.5	4310.6	4415.3	4607.4	4867.0	5089.6	5158.4	5135.9	5029.9	4894.9	4867.0
20°	4084.1	4115.9	4227.2	4481.5	4840.5	5175.7	5375.8	5381.1	5249.9	5053.8	5012.8
22.5°	3866.8	3890.7	4033.8	4331.8	4761.1	5195.5	5562.5	5653.9	5476.4	5212.8	5154.5
25°	3623.1	3649.6	3799.3	4121.2	4611.4	5173.1	5733.3	5934.8	5713.5	5382.3	5308.1
27.5°	3390.0	3400.6	3560.9	3888.0	4414.0	5114.7	5859.2	6193.0	5975.8	5522.8	5428.7
30°	3166.1	3191.3	3333.0	3656.2	4187.4	5000.8	5967.9	6487.1	6258.0	5669.8	5549.3
32.5°	2929.0	2959.4	3113.1	3440.3	3960.9	4829.9	6034.1	6809.1	6651.4	5908.3	5779.8
35°	2701.1	2721.0	2876.0	3193.9	3739.7	4631.2	6046.0	7172.0	7158.8	6269.9	6099.0
37.5°	2467.9	2497.1	2653.4	2958.1	3505.2	4420.6	5986.4	7557.6	7770.8	6772.0	6587.8
40°	2244.0	2269.3	2422.9	2730.2	3238.9	4163.6	5844.7	7909.9	8484.8	7288.6	7027.6
42.5°	2000.3	2007.0	2175.2	2487.8	2978.0	3865.6	5640.7	8223.9	9281.0	7981.4	7656.9
45°	1723.5	1740.7	1897.0	2204.3	2678.6	3531.7	5363.8	8483.5	10290.4	8941.8	8499.4
47.5°	1446.6	1461.2	1604.2	1907.6	2351.4	3148.9	4937.3	8711.3	11326.3	10162.0	9581.7
50°	1176.4	1184.3	1300.9	1569.8	1983.1	2746.1	4408.7	8784.2	12497.4	11889.4	11148.9
52.5°	930.0	941.8	1030.6	1241.2	1589.7	2270.5	3837.7	8604.0	13864.6	13937.4	12893.5
55°	753.8	757.7	824.0	979.0	1242.6	1772.5	3148.9	8102.0	15335.0	16561.6	15230.3
57.5°	649.1	651.8	688.9	775.0	956.5	1336.6	2442.8	7152.2	16655.7	19636.3	17924.8
60°	589.5	590.8	612.0	662.4	757.7	1025.3	1750.0	5811.6	17959.2	23058.1	21273.7
62.5°	552.4	552.4	567.0	594.8	641.2	786.9	1267.7	4192.7	18852.1	26530.2	25401.5
65°	516.6	516.6	527.2	547.1	572.3	643.8	936.5	2734.3	18829.6	29059.1	29553.2
67.5°	475.6	475.6	483.5	503.4	518.0	553.7	723.3	1791.0	16914.0	29003.4	31818.5
70°	426.6	426.6	437.2	454.4	466.3	488.8	571.0	1225.3	12425.9	24764.3	28297.4
72.5°	377.5	378.9	385.5	402.8	412.0	425.2	474.2	858.4	7622.4	16862.4	19786.0
75°	323.2	325.9	332.5	349.7	357.7	363.0	400.1	612.0	3856.2	9091.5	10351.4
77.5°	261.0	266.3	270.2	288.8	294.1	302.0	329.8	442.5	1693.0	3266.8	3295.9
80°	190.7	197.4	209.3	226.6	230.5	235.8	251.7	313.9	767.0	1491.6	1620.1
82.5°	140.4	149.7	135.1	157.6	157.6	151.0	177.5	210.7	352.4	1477.0	1767.2
85°	76.9	78.1	70.2	80.8	86.1	84.8	94.0	103.4	170.9	985.6	1016.1
87.5°	18.6	19.8	21.2	25.1	30.4	30.4	33.1	29.2	55.7	319.2	182.8
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)