

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: P459544

Luminaire Tested: **GALN-SA9D-735-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459544  
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-SA9D-735-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 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: 65215 lumens  
Efficiency: N/A  
Efficacy: 118.1 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

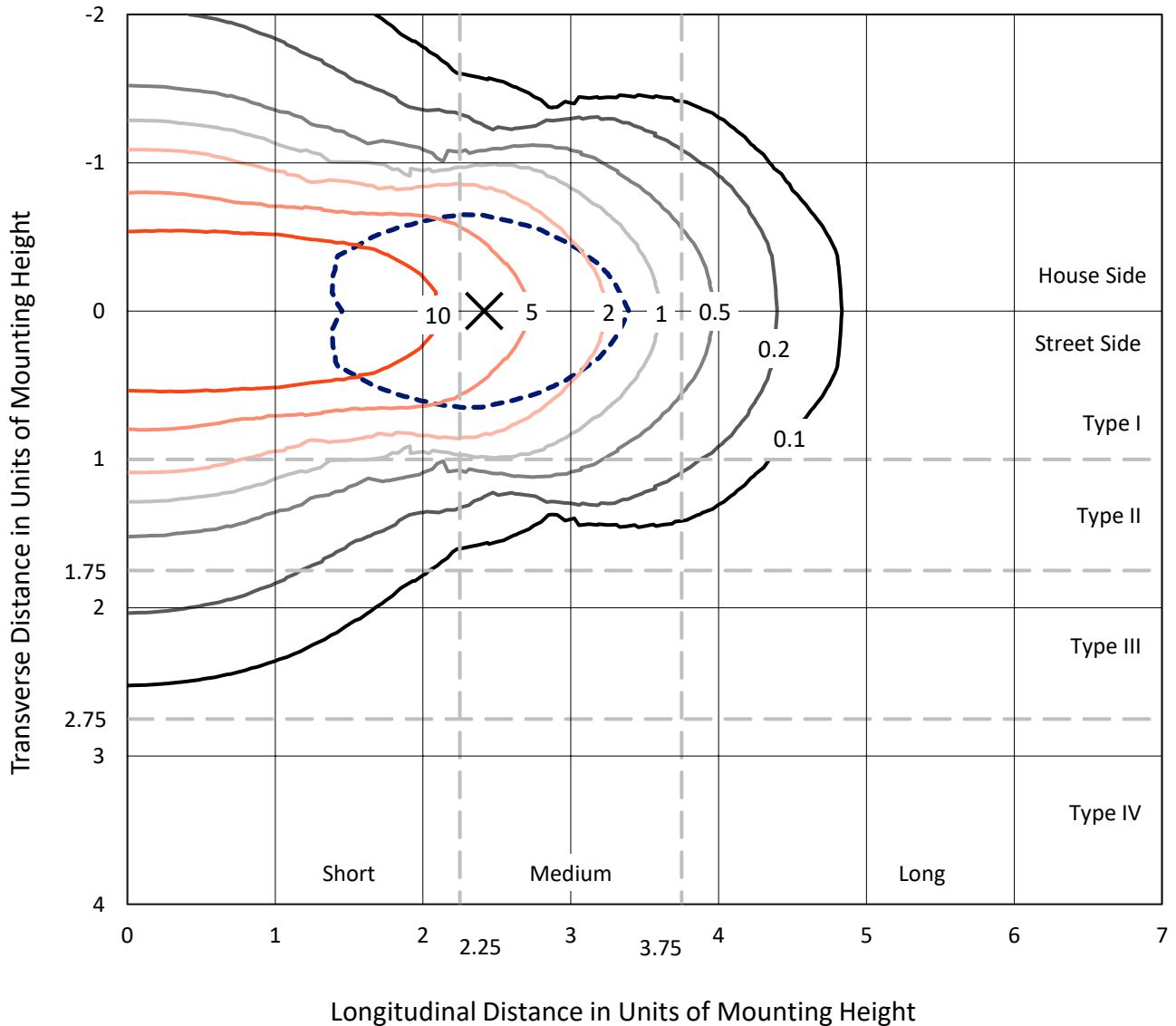
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

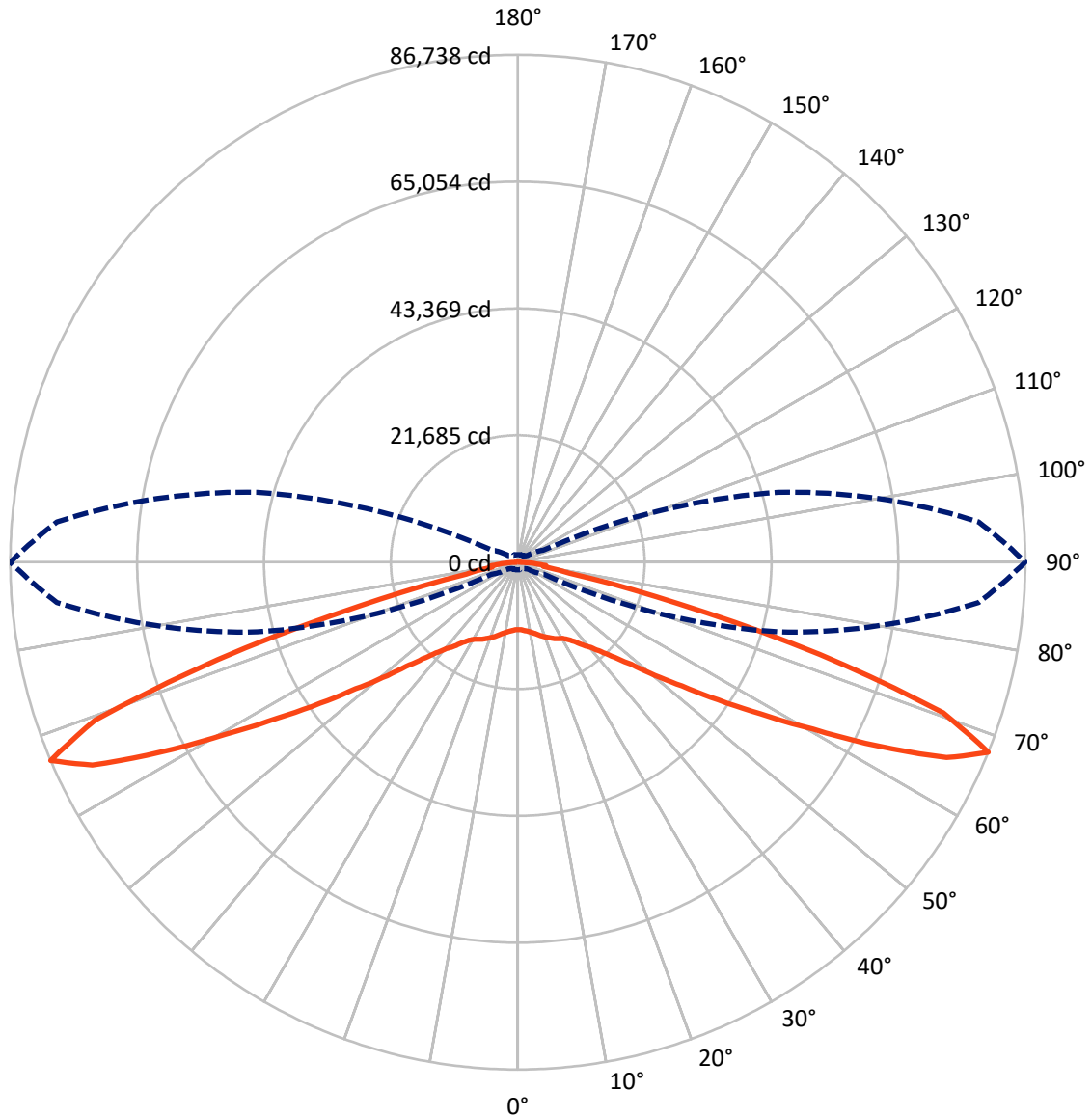
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 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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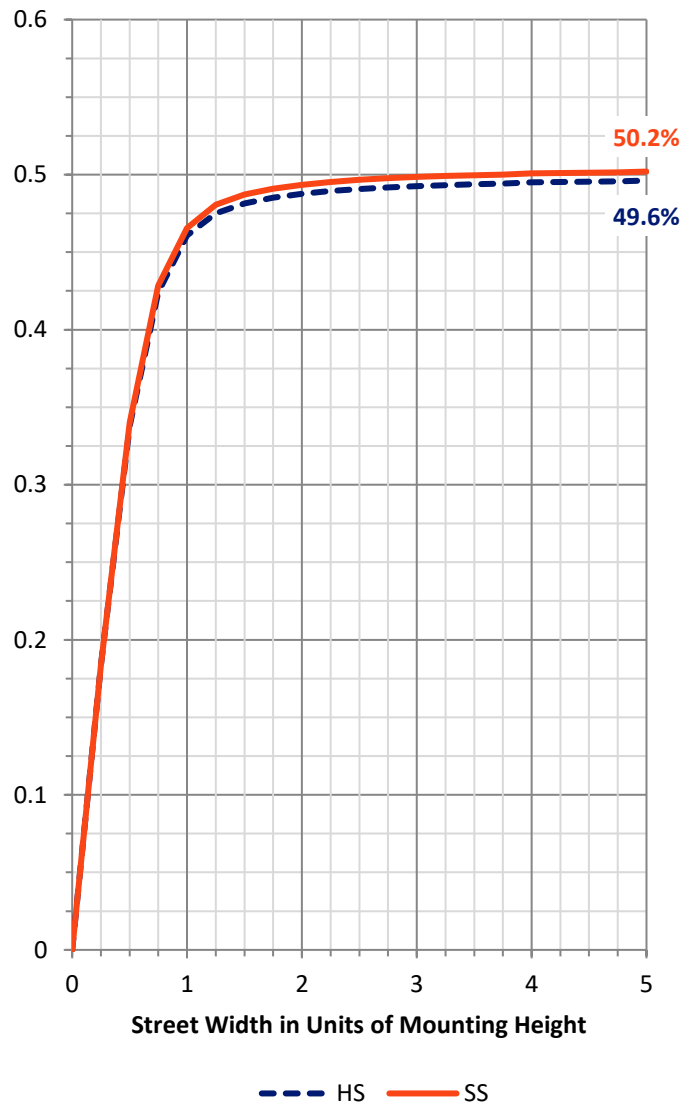
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	32607.5	0.0	32607.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	32607.5	0.0	32607.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	65215.0	0.0	65215.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1151.0	1.8
10°-20°	3682.7	5.6
20°-30°	6163.9	9.5
30°-40°	8350.5	12.8
40°-50°	10577.3	16.2
50°-60°	13213.7	20.3
60°-70°	15532.1	23.8
70°-80°	5941.7	9.1
80°-90°	602.0	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°	65215.0	100.0
0°-180°	65215.0	100.0



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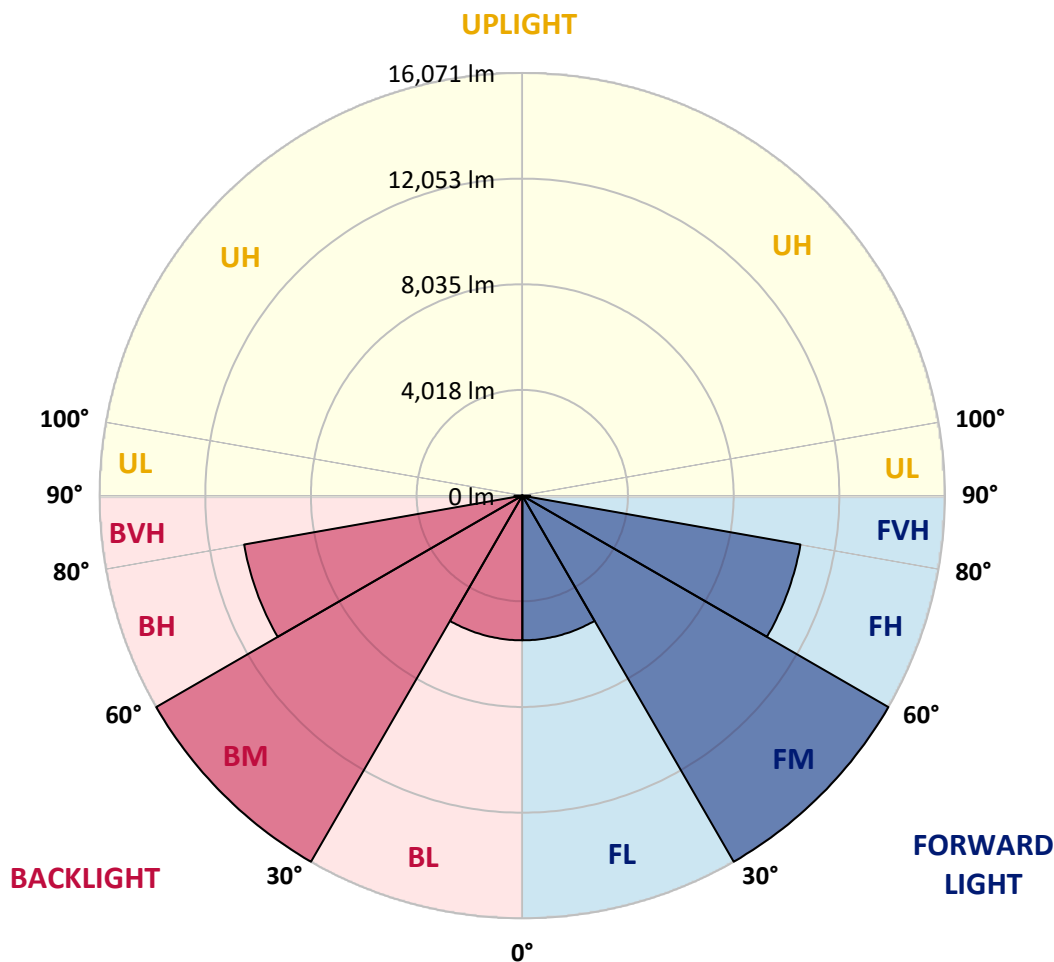
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5498.8	8.4			
FM	(30°-60°)	16070.7	24.6			
FH	(60°-80°)	10736.9	16.5			G4/12000
FVH	(80°-90°)	301.0	0.5			G3/500
BL	(0°-30°)	5498.8	8.4	B5		
BM	(30°-60°)	16070.7	24.6	B5		
BH	(60°-80°)	10736.9	16.5	B5		G5
BVH	(80°-90°)	301.0	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°	11545.1	11545.1	11545.1	11545.1	11545.1	11545.1	11545.1	11545.1	11545.1	11545.1	11545.1
2.5°	11693.1	11685.9	11689.5	11685.9	11696.8	11689.5	11646.2	11610.1	11581.2	11584.8	11574.0
5°	11942.3	11945.9	11949.5	11931.5	11956.8	11942.3	11873.7	11815.9	11758.1	11736.5	11729.3
7.5°	12148.2	12166.2	12177.0	12195.1	12238.4	12238.4	12202.3	12119.3	11992.9	11920.7	11917.0
10°	12354.0	12368.4	12400.9	12458.7	12530.9	12599.6	12585.1	12473.2	12310.7	12187.9	12159.0
12.5°	12426.2	12444.3	12552.6	12718.7	12881.2	13014.9	13014.9	12924.6	12715.1	12527.3	12473.2
15°	12173.4	12205.9	12400.9	12754.8	13181.0	13473.5	13538.5	13412.1	13188.2	12899.3	12834.3
17.5°	11671.5	11750.9	12036.2	12559.8	13267.6	13874.3	14062.1	14000.7	13711.8	13343.5	13267.6
20°	11133.4	11220.1	11523.4	12216.8	13195.4	14109.1	14654.3	14668.8	14311.3	13776.8	13664.9
22.5°	10541.2	10606.2	10996.2	11808.7	12978.7	14163.2	15163.5	15412.7	14928.8	14210.2	14051.3
25°	9876.7	9948.9	10357.0	11234.5	12570.7	14101.8	15629.4	16178.3	15575.2	14672.4	14470.2
27.5°	9241.1	9270.0	9707.0	10598.9	12032.6	13942.9	15972.4	16882.5	16290.2	15055.2	14798.8
30°	8630.8	8699.4	9085.8	9967.0	11415.1	13632.4	16268.6	17684.2	17059.4	15456.0	15127.4
32.5°	7984.4	8067.5	8486.4	9378.4	10797.6	13166.5	16449.1	18561.7	18132.0	16106.1	15755.8
35°	7363.3	7417.5	7840.0	8706.7	10194.5	12624.8	16481.6	19551.2	19515.1	17091.9	16626.1
37.5°	6727.7	6807.2	7233.3	8063.9	9555.3	12050.7	16319.1	20602.0	21183.4	18460.6	17958.6
40°	6117.4	6186.0	6604.9	7442.7	8829.4	11350.1	15932.7	21562.6	23129.9	19869.0	19157.5
42.5°	5452.9	5471.0	5929.6	6781.9	8118.0	10537.6	15376.6	22418.5	25300.2	21757.6	20872.9
45°	4698.2	4745.1	5171.3	6009.1	7301.9	9627.5	14621.8	23126.3	28052.0	24375.8	23169.6
47.5°	3943.5	3983.2	4373.2	5200.2	6409.9	8583.9	13459.0	23747.4	30876.0	27701.7	26120.0
50°	3206.8	3228.4	3546.2	4279.3	5406.0	7486.1	12018.2	23946.0	34068.3	32410.7	30392.1
52.5°	2535.1	2567.6	2809.5	3383.7	4333.5	6189.6	10461.7	23454.9	37795.1	37993.7	35148.1
55°	2054.8	2065.6	2246.2	2668.7	3387.3	4831.8	8583.9	22086.3	41803.5	45147.5	41518.3
57.5°	1769.5	1776.7	1877.8	2112.6	2607.3	3643.7	6659.1	19497.0	45403.9	53529.2	48863.5
60°	1607.0	1610.6	1668.4	1805.6	2065.6	2795.1	4770.4	15842.4	48957.4	62857.0	57992.7
62.5°	1505.9	1505.9	1545.6	1621.4	1747.8	2145.1	3455.9	11429.5	51391.3	72322.0	69245.2
65°	1408.4	1408.4	1437.3	1491.4	1560.0	1755.1	2553.1	7453.6	51329.9	79215.8	80562.8
67.5°	1296.4	1296.4	1318.1	1372.3	1412.0	1509.5	1971.7	4882.4	46108.1	79064.2	86738.0
70°	1162.8	1162.8	1191.7	1238.7	1271.2	1332.5	1556.4	3340.4	33873.3	67508.2	77139.4
72.5°	1029.2	1032.8	1050.9	1097.8	1123.1	1159.2	1292.8	2340.1	20779.0	45967.3	53937.3
75°	881.1	888.4	906.4	953.4	975.0	989.5	1090.6	1668.4	10512.3	24783.8	28218.1
77.5°	711.4	725.9	736.7	787.2	801.7	823.4	899.2	1206.1	4615.1	8905.3	8984.7
80°	520.0	538.1	570.6	617.5	628.4	642.8	686.1	855.9	2090.9	4066.2	4416.5
82.5°	382.8	408.1	368.3	429.7	429.7	411.7	483.9	574.2	960.6	4026.5	4817.4
85°	209.5	213.1	191.4	220.3	234.7	231.1	256.4	281.7	465.8	2686.8	2769.8
87.5°	50.6	54.2	57.8	68.6	83.1	83.1	90.3	79.4	151.7	870.3	498.3
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)