

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: P534313

Luminaire Tested: **GALN-SA9D-740-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534313  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-740-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45322 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

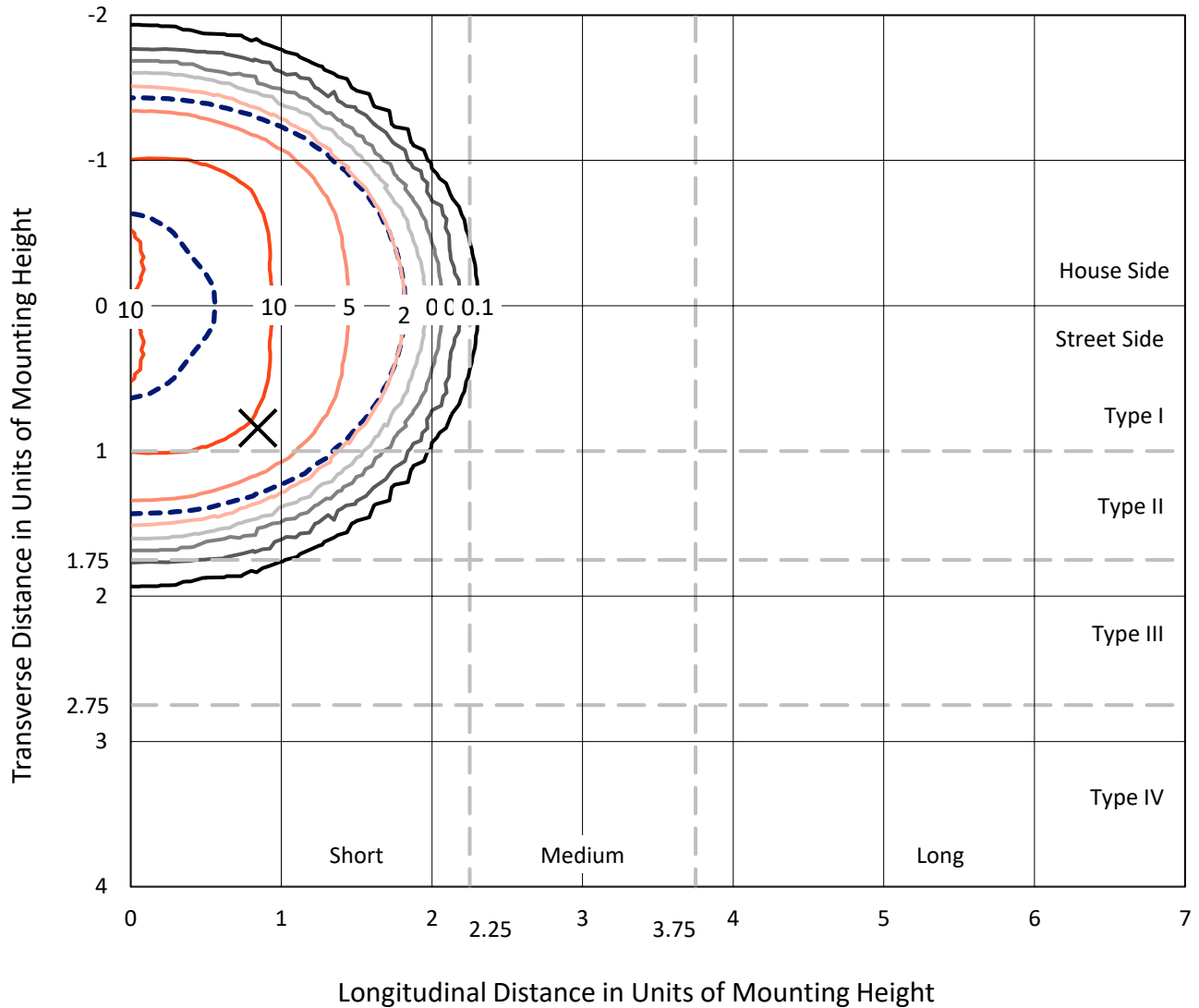
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

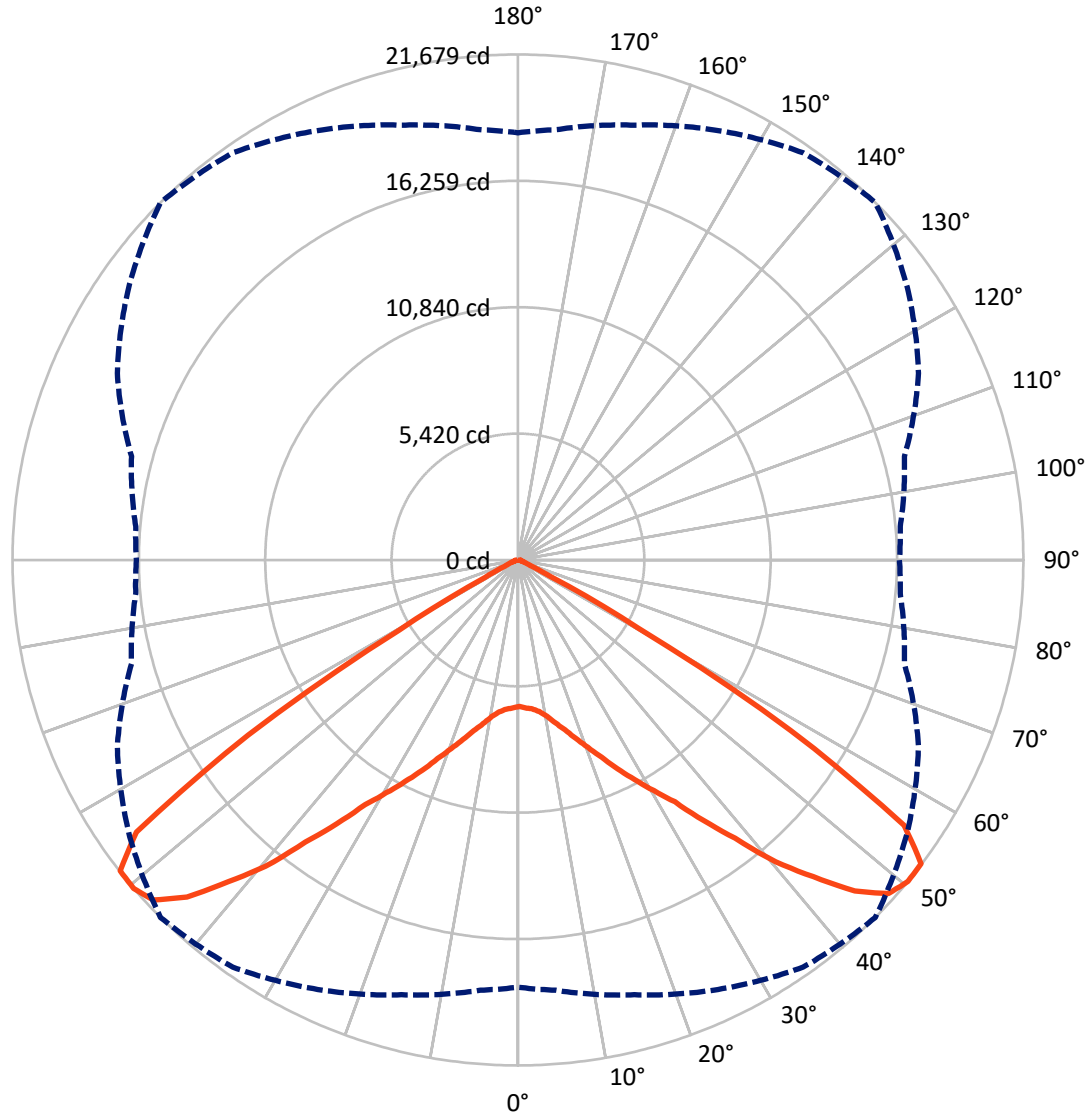
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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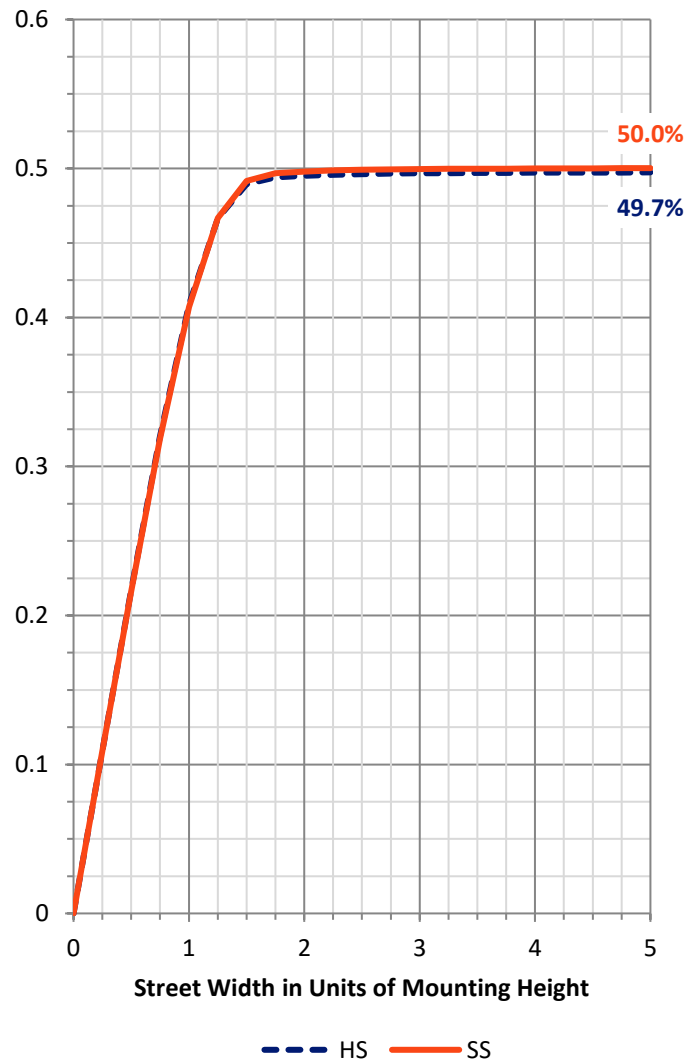
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22661.0	0.0	22661.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22661.0	0.0	22661.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	45322.0	0.0	45322.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	625.1	1.4
10°-20°	2154.5	4.8
20°-30°	4400.3	9.7
30°-40°	8391.3	18.5
40°-50°	14140.6	31.2
50°-60°	13485.5	29.8
60°-70°	1882.5	4.2
70°-80°	180.0	0.4
80°-90°	62.2	0.1
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°	45322.0	100.0
0°-180°	45322.0	100.0



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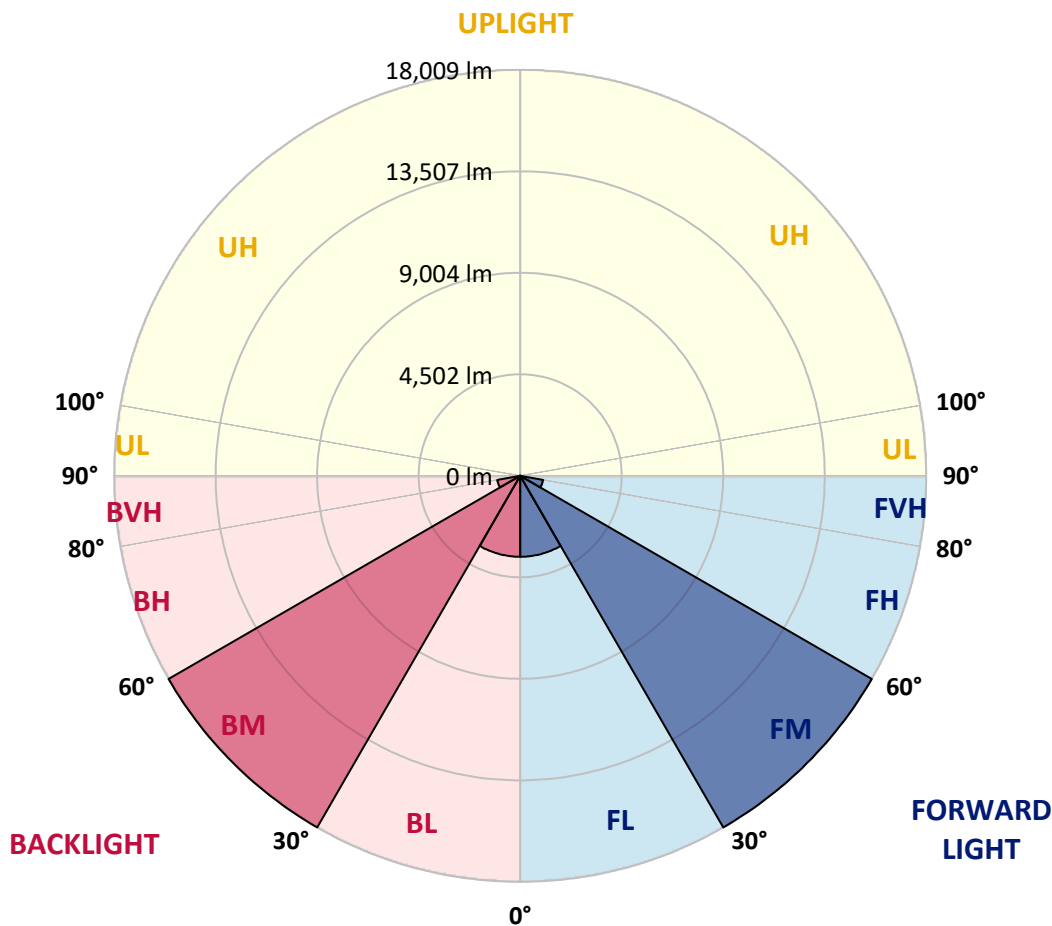
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3589.9	7.9			
FM (30°-60°)	18008.7	39.7			
FH (60°-80°)	1031.3	2.3			G1/1800
FVH (80°-90°)	31.1	0.1			G1/100
BL (0°-30°)	3589.9	7.9	B4/5000		
BM (30°-60°)	18008.7	39.7	B5		
BH (60°-80°)	1031.3	2.3	B3/2500		G1/1800
BVH (80°-90°)	31.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6283.4	6283.4	6283.4	6283.4	6283.4	6283.4	6283.4	6283.4	6283.4	6283.4	6283.4
2.5°	6260.5	6260.5	6252.9	6313.9	6283.4	6352.0	6344.4	6367.3	6390.2	6382.5	6443.5
5°	6207.1	6199.5	6199.5	6268.1	6336.8	6413.0	6481.7	6527.4	6603.7	6603.7	6679.9
7.5°	6260.5	6222.4	6275.8	6306.3	6435.9	6565.5	6679.9	6771.4	6946.8	7007.8	6984.9
10°	6275.8	6321.5	6359.7	6451.2	6611.3	6809.6	6908.7	7137.5	7335.7	7473.0	7503.5
12.5°	6374.9	6443.5	6550.3	6771.4	6916.3	7175.6	7312.8	7534.0	7808.5	7961.0	8067.8
15°	6565.5	6588.4	6725.7	7007.8	7320.5	7556.9	7770.4	7930.5	8197.4	8372.8	8380.4
17.5°	6809.6	6908.7	7099.3	7366.2	7694.1	8044.9	8212.6	8388.0	8487.2	8723.6	8776.9
20°	7297.6	7312.8	7495.8	7846.6	8258.4	8578.7	8700.7	8792.2	8754.1	8998.1	9043.8
22.5°	7755.1	7770.4	7999.1	8471.9	8914.2	9188.7	9242.1	9188.7	9074.3	9249.7	9265.0
25°	8220.3	8357.5	8525.3	8998.1	9547.1	9913.1	9920.8	9775.9	9539.5	9570.0	9646.2
27.5°	8944.7	9043.8	9219.2	9653.9	10256.3	10668.0	10599.4	10424.0	10119.0	10141.9	10119.0
30°	9791.1	9882.6	10027.5	10584.2	11026.4	11476.3	11575.5	11407.7	10950.2	10851.1	10965.4
32.5°	10812.9	10942.6	11209.5	11720.4	12094.0	12368.5	12437.2	12376.2	11949.1	11911.0	11987.3
35°	12055.9	12231.3	12475.3	12925.2	13230.2	13725.9	13725.9	13520.0	13131.1	13176.8	13169.2
37.5°	13367.5	13626.7	14008.0	14465.5	14877.3	15144.2	15060.3	14884.9	14496.0	14396.9	14496.0
40°	15014.6	15144.2	15624.6	16219.4	16722.7	17027.7	16669.3	16288.0	15357.7	15502.6	15769.5
42.5°	16516.8	16722.7	17088.7	17744.5	18316.4	18568.0	18141.0	17386.1	16265.2	16150.8	16349.0
45°	17797.9	18019.0	18499.4	19437.4	20039.8	20260.9	19315.3	18095.3	16814.2	16524.4	16608.3
47.5°	18651.9	18766.3	19437.4	20329.5	20878.6	21381.8	20024.5	18583.3	17073.5	16524.4	16493.9
50°	18324.0	18522.3	19307.7	20321.9	21320.8	21679.2	20382.9	18956.9	17157.3	16455.8	16364.3
52.5°	16272.8	16615.9	17492.9	18857.8	20367.7	21648.7	20878.6	18834.9	17126.8	16524.4	16661.7
55°	11323.8	11331.5	12399.0	14412.2	17081.1	20100.8	20154.1	18972.2	17325.1	16951.4	16959.1
57.5°	4552.4	4781.2	5597.1	7617.9	10080.9	13802.1	16410.0	17599.6	17348.0	17256.5	17492.9
60°	1151.4	1159.1	1410.7	2150.4	3545.8	5917.4	8593.9	11628.9	13390.3	13992.8	14076.6
62.5°	587.2	594.8	655.8	762.5	968.4	1586.1	2821.4	4476.2	6367.3	7328.1	7579.7
65°	480.4	480.4	518.5	571.9	579.5	610.0	732.0	1044.7	1517.5	1723.4	1746.2
67.5°	366.0	366.0	396.5	427.0	442.3	434.7	419.4	434.7	526.2	503.3	488.0
70°	228.8	236.4	251.6	282.1	297.4	305.0	312.6	327.9	373.6	388.9	373.6
72.5°	137.3	137.3	144.9	167.8	190.6	205.9	228.8	244.0	266.9	305.0	297.4
75°	61.0	61.0	76.3	99.1	122.0	144.9	167.8	190.6	205.9	228.8	236.4
77.5°	15.3	22.9	38.1	68.6	91.5	122.0	152.5	175.4	190.6	190.6	183.0
80°	7.6	7.6	30.5	53.4	99.1	129.6	167.8	183.0	205.9	190.6	167.8
82.5°	7.6	7.6	30.5	53.4	91.5	129.6	175.4	198.3	213.5	190.6	160.1
85°	0.0	7.6	22.9	45.8	76.3	91.5	76.3	53.4	30.5	30.5	22.9
87.5°	0.0	0.0	7.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)