

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: P457920

Luminaire Tested: **GALN-SA9B-740-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457920  
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-SA9B-740-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 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: 51494 lumens  
Efficiency: N/A  
Efficacy: 141.5 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

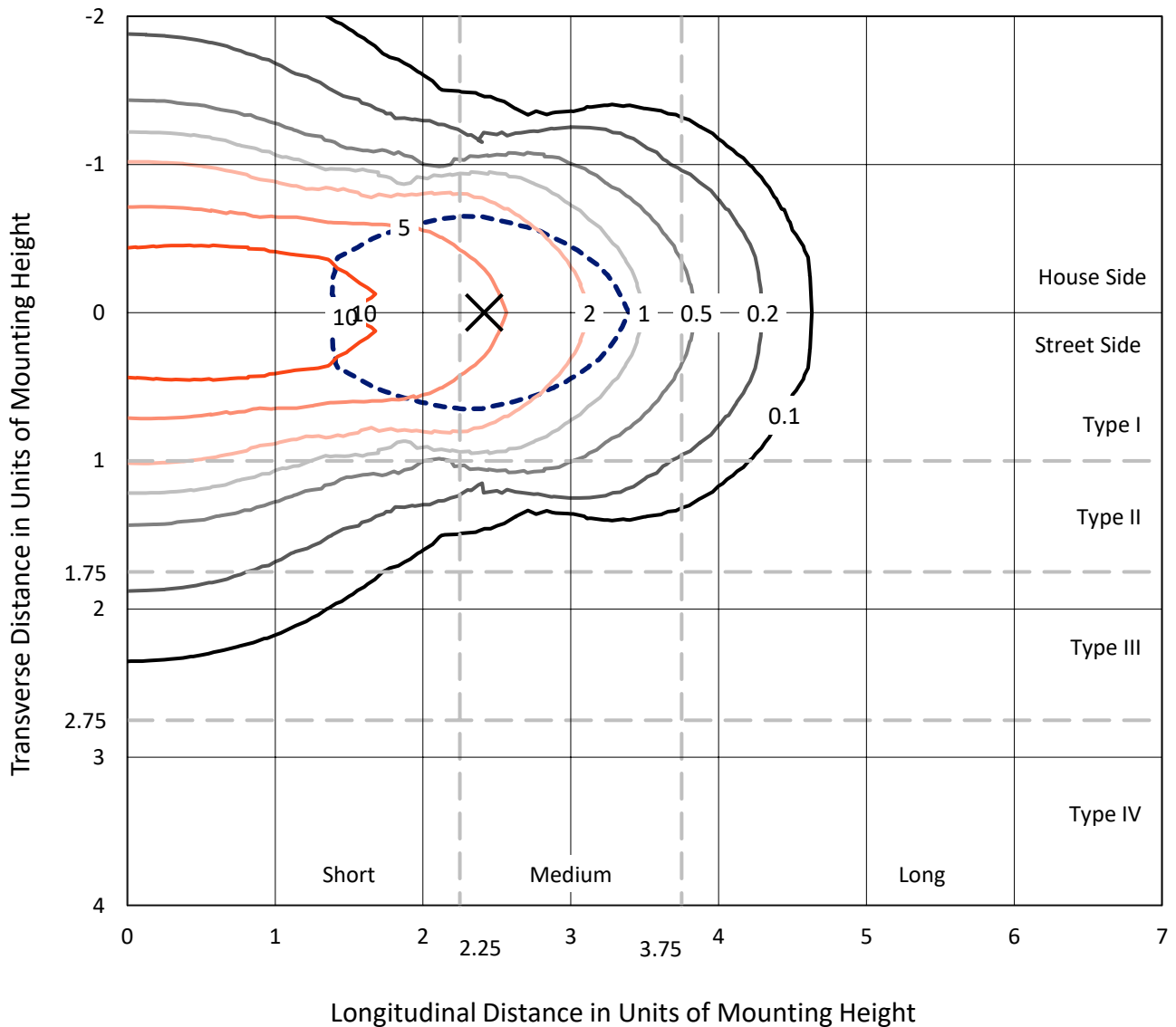
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

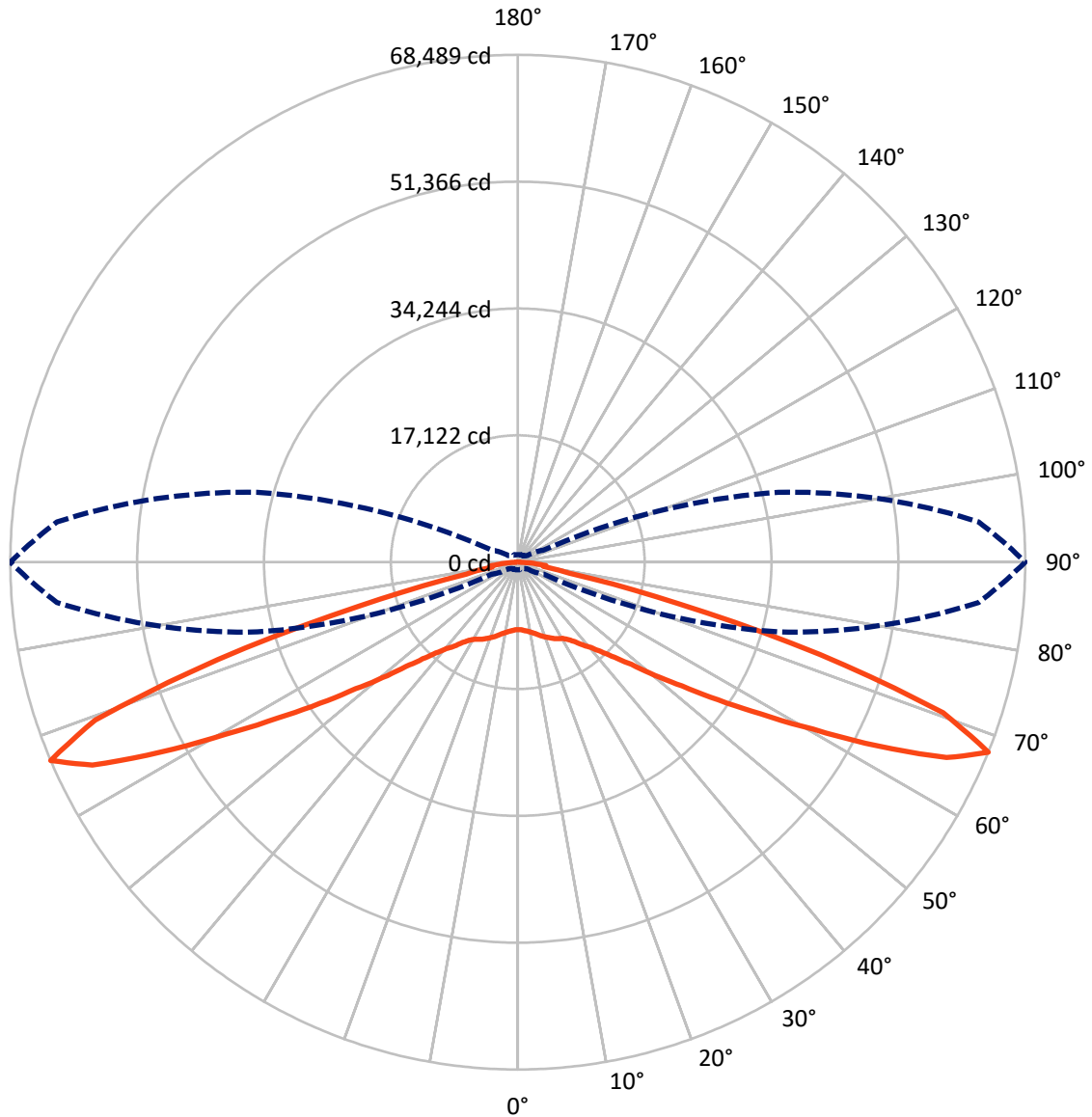
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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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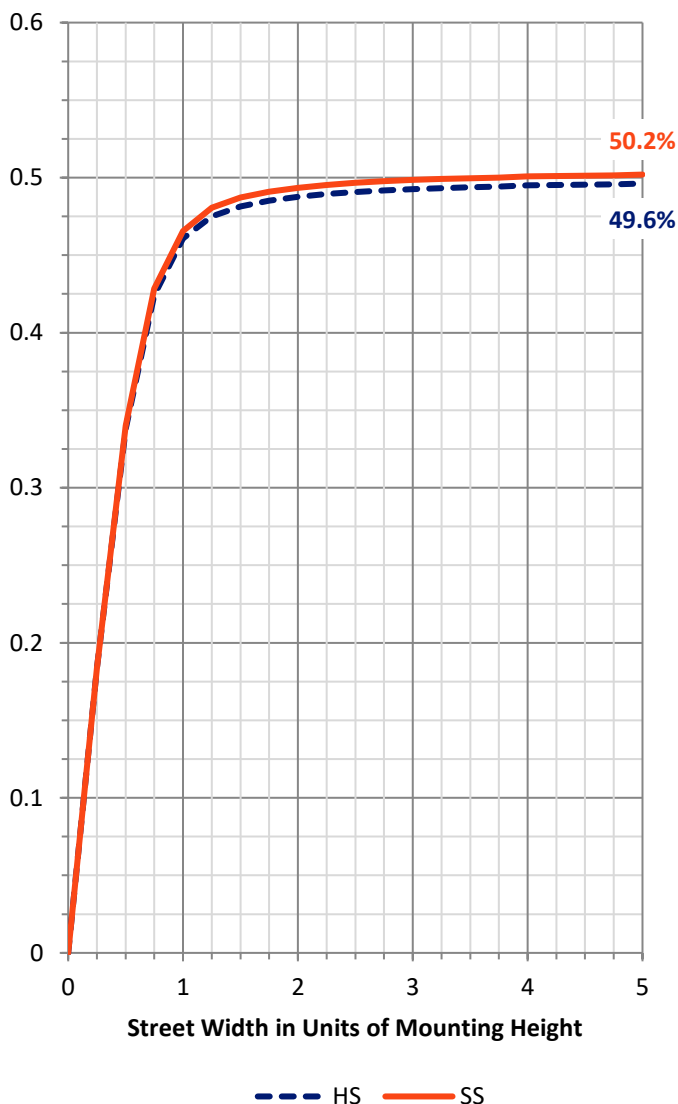
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25747.0	0.0	25747.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25747.0	0.0	25747.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51494.0	0.0	51494.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	908.9	1.8
10°-20°	2907.9	5.6
20°-30°	4867.1	9.5
30°-40°	6593.6	12.8
40°-50°	8351.9	16.2
50°-60°	10433.6	20.3
60°-70°	12264.2	23.8
70°-80°	4691.6	9.1
80°-90°	475.3	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°	51494.0	100.0
0°-180°	51494.0	100.0

**Coefficient of Utilization**



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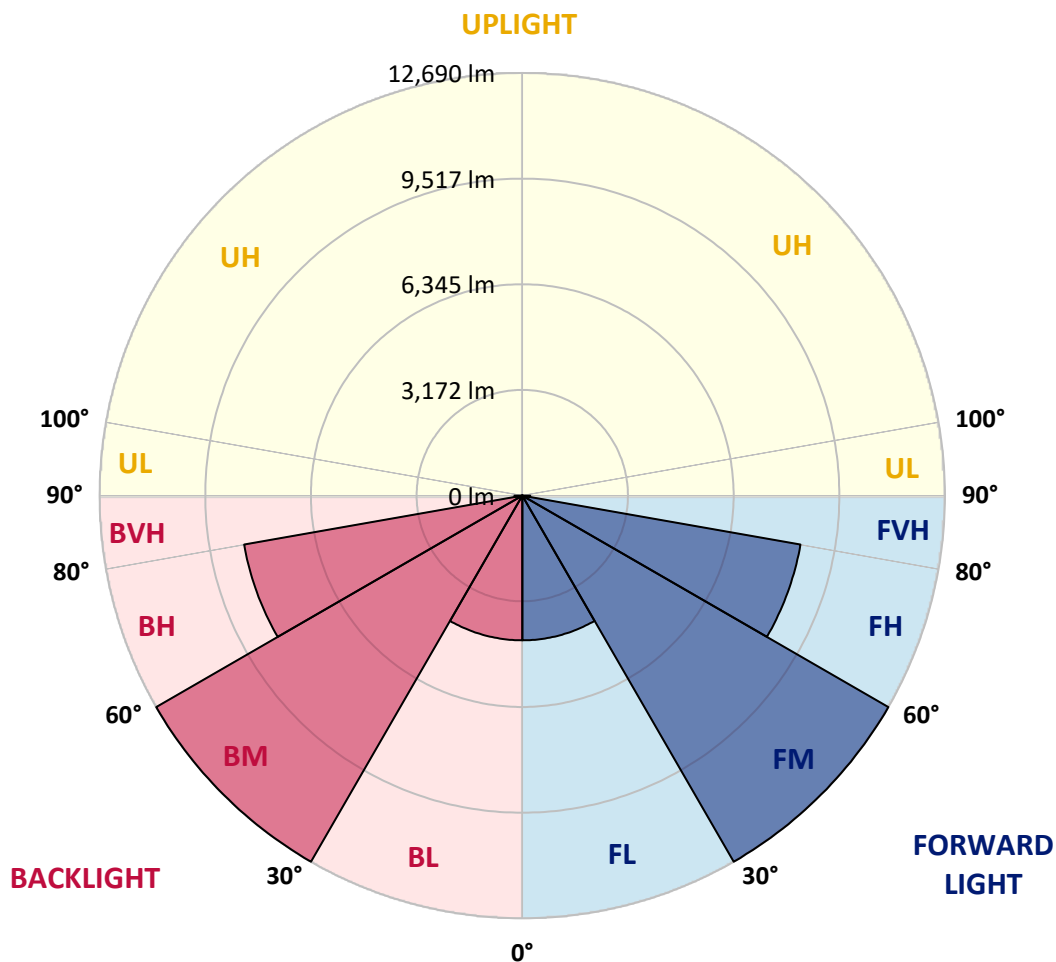
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4341.9	8.4			
FM	(30°-60°)	12689.5	24.6			
FH	(60°-80°)	8477.9	16.5			G4/12000
FVH	(80°-90°)	237.7	0.5			G3/500
BL	(0°-30°)	4341.9	8.4	B4/5000		
BM	(30°-60°)	12689.5	24.6	B5		
BH	(60°-80°)	8477.9	16.5	B5		G5
BVH	(80°-90°)	237.7	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°	9116.0	9116.0	9116.0	9116.0	9116.0	9116.0	9116.0	9116.0	9116.0	9116.0	9116.0
2.5°	9233.0	9227.2	9230.1	9227.2	9235.8	9230.1	9195.9	9167.4	9144.6	9147.4	9138.9
5°	9429.7	9432.6	9435.4	9421.1	9441.1	9429.7	9375.5	9329.9	9284.3	9267.2	9261.5
7.5°	9592.2	9606.5	9615.0	9629.3	9663.5	9663.5	9635.0	9569.4	9469.6	9412.6	9409.7
10°	9754.8	9766.2	9791.8	9837.5	9894.5	9948.7	9937.3	9848.9	9720.5	9623.6	9600.8
12.5°	9811.8	9826.0	9911.6	10042.8	10171.1	10276.6	10276.6	10205.3	10039.9	9891.6	9848.9
15°	9612.2	9637.9	9791.8	10071.3	10407.7	10638.7	10690.0	10590.2	10413.4	10185.3	10134.0
17.5°	9215.8	9278.6	9503.8	9917.3	10476.2	10955.2	11103.5	11055.0	10826.9	10536.1	10476.2
20°	8791.0	8859.4	9098.9	9646.4	10419.1	11140.6	11571.1	11582.5	11300.2	10878.2	10789.8
22.5°	8323.3	8374.7	8682.6	9324.2	10248.1	11183.3	11973.2	12169.9	11787.8	11220.4	11094.9
25°	7798.7	7855.7	8177.9	8870.8	9925.8	11134.9	12341.0	12774.4	12298.2	11585.4	11425.7
27.5°	7296.8	7319.6	7664.7	8369.0	9501.0	11009.4	12611.9	13330.5	12862.8	11887.6	11685.2
30°	6814.9	6869.1	7174.2	7870.0	9013.4	10764.2	12845.7	13963.5	13470.2	12204.1	11944.7
32.5°	6304.5	6370.1	6700.9	7405.2	8525.8	10396.3	12988.3	14656.4	14317.1	12717.4	12440.8
35°	5814.1	5856.8	6190.5	6874.8	8049.6	9968.6	13014.0	15437.7	15409.2	13495.8	13128.0
37.5°	5312.2	5375.0	5711.4	6367.3	7544.9	9515.2	12885.6	16267.4	16726.5	14576.5	14180.2
40°	4830.3	4884.5	5215.3	5876.8	6971.8	8962.1	12580.5	17025.9	18263.4	15688.6	15126.9
42.5°	4305.7	4319.9	4682.1	5355.0	6410.0	8320.5	12141.4	17701.7	19977.2	17179.9	16481.3
45°	3709.7	3746.8	4083.3	4744.8	5765.6	7601.9	11545.5	18260.6	22150.0	19247.2	18294.8
47.5°	3113.8	3145.1	3453.1	4106.1	5061.3	6777.9	10627.3	18751.0	24379.8	21873.4	20624.4
50°	2532.1	2549.2	2800.1	3379.0	4268.6	5911.0	9489.6	18907.9	26900.4	25591.6	23997.7
52.5°	2001.7	2027.4	2218.4	2671.8	3421.7	4887.4	8260.6	18520.1	29843.1	30000.0	27753.0
55°	1622.5	1631.0	1773.6	2107.2	2674.6	3815.2	6777.9	17439.4	33008.2	35648.7	32783.0
57.5°	1397.2	1402.9	1482.7	1668.1	2058.7	2877.1	5258.0	15394.9	35851.1	42266.8	38582.8
60°	1268.9	1271.7	1317.4	1425.7	1631.0	2207.0	3766.7	12509.3	38656.9	49632.1	45791.2
62.5°	1189.0	1189.0	1220.4	1280.3	1380.1	1693.8	2728.8	9024.8	40578.8	57105.7	54676.3
65°	1112.1	1112.1	1134.9	1177.6	1231.8	1385.8	2016.0	5885.4	40530.3	62549.1	63612.7
67.5°	1023.7	1023.7	1040.8	1083.5	1114.9	1191.9	1556.9	3855.1	36407.1	62429.3	68488.6
70°	918.2	918.2	941.0	978.0	1003.7	1052.2	1229.0	2637.6	26746.5	53304.7	60909.5
72.5°	812.7	815.5	829.8	866.8	886.8	915.3	1020.8	1847.7	16407.2	36295.9	42589.0
75°	695.8	701.5	715.7	752.8	769.9	781.3	861.1	1317.4	8300.5	19569.4	22281.1
77.5°	561.7	573.1	581.7	621.6	633.0	650.1	710.0	952.4	3644.1	7031.6	7094.4
80°	410.6	424.9	450.5	487.6	496.1	507.6	541.8	675.8	1651.0	3210.7	3487.3
82.5°	302.3	322.2	290.8	339.3	339.3	325.1	382.1	453.4	758.5	3179.4	3803.8
85°	165.4	168.2	151.1	173.9	185.3	182.5	202.5	222.4	367.8	2121.5	2187.1
87.5°	39.9	42.8	45.6	54.2	65.6	65.6	71.3	62.7	119.8	687.2	393.5
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)