

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: P533552

Luminaire Tested: **GALN-SA9A-730-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-730-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33326 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

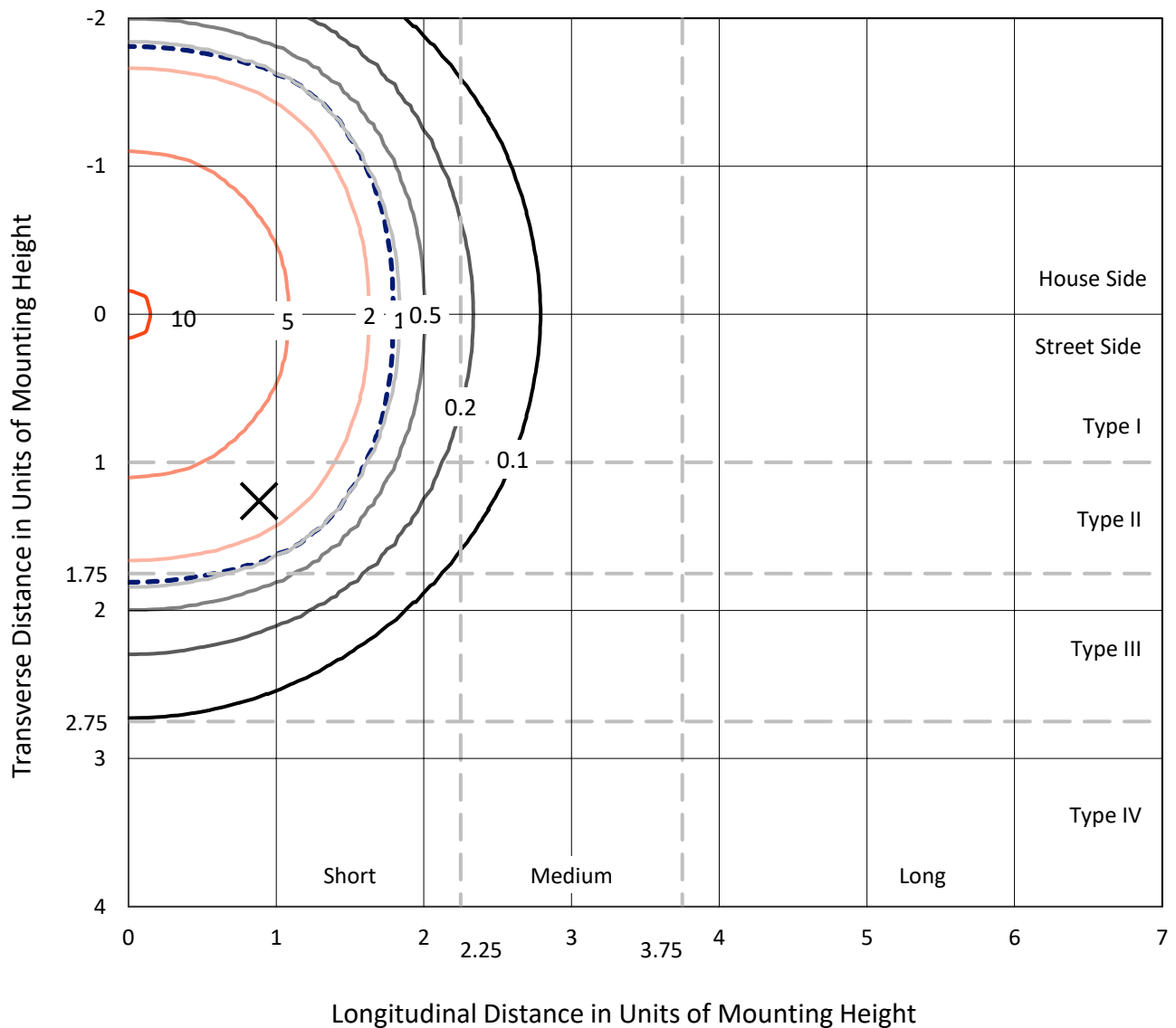
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

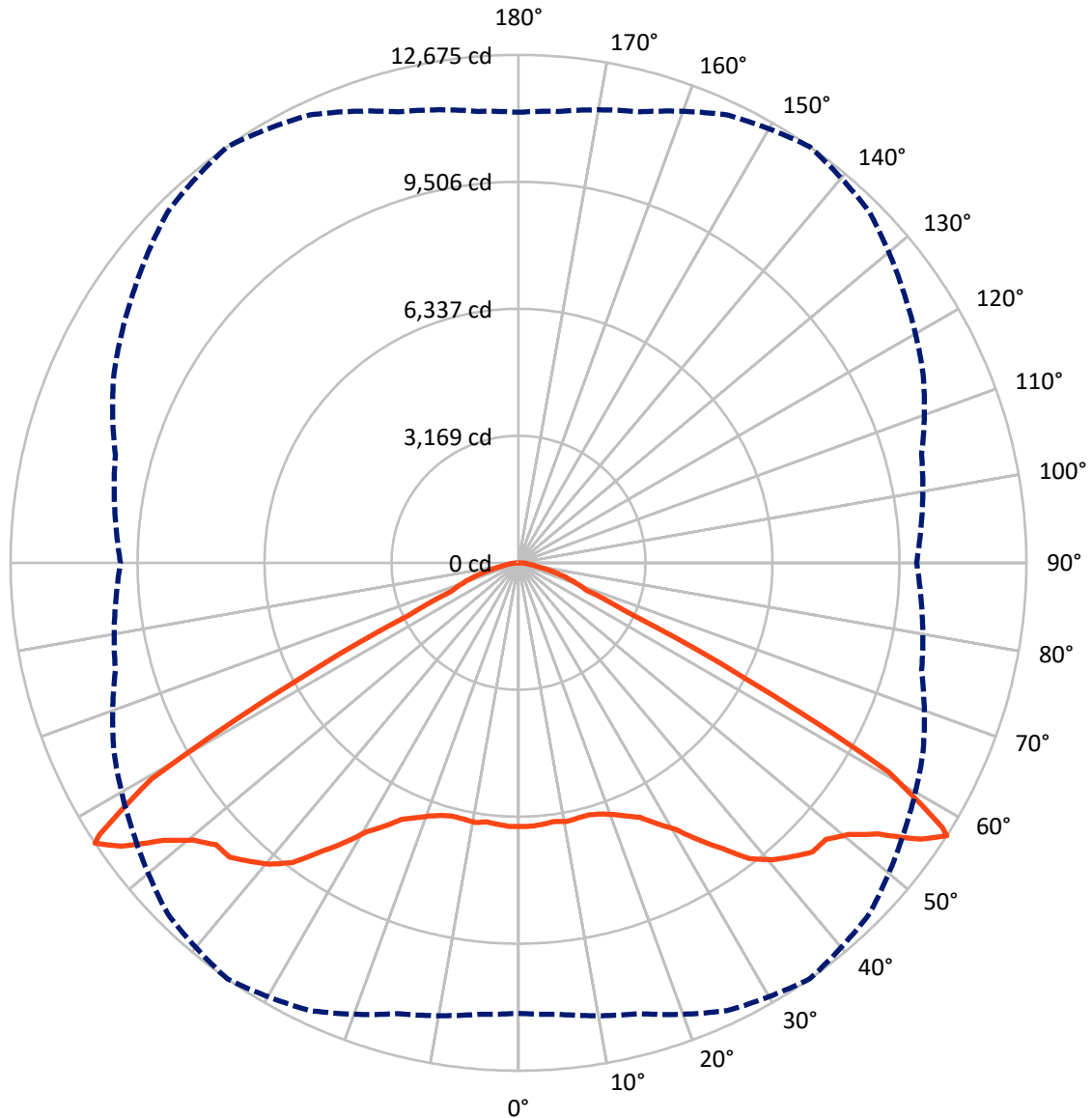
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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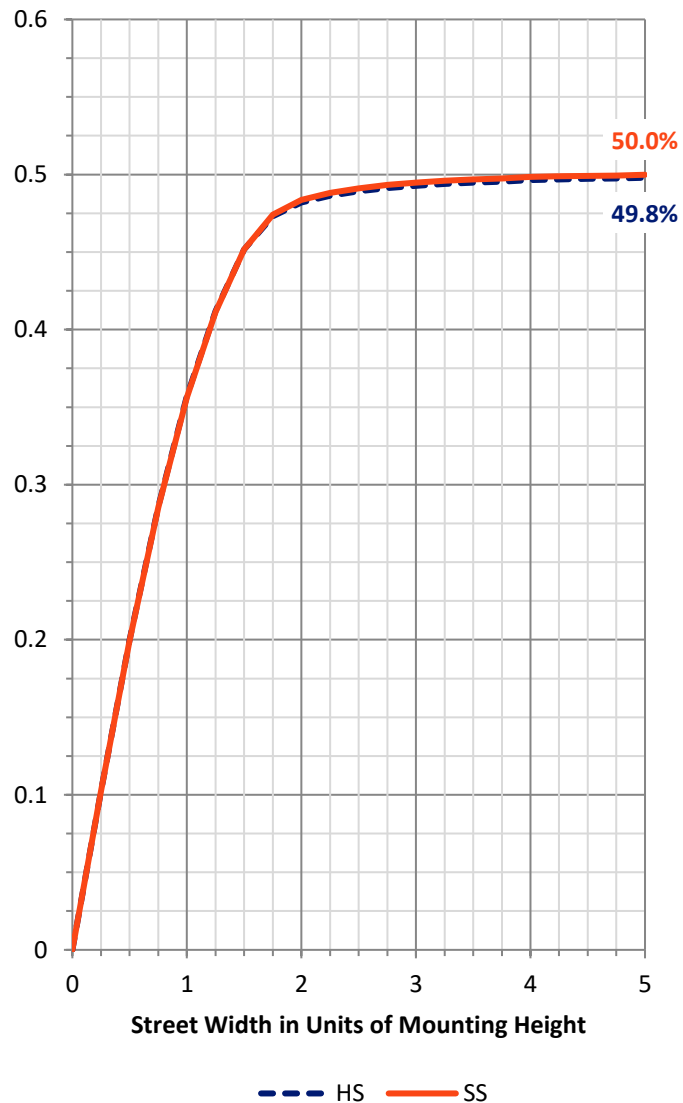
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16663.0	0.0	16663.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16663.0	0.0	16663.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	33326.0	0.0	33326.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	624.0	1.9
10°-20°	1848.0	5.5
20°-30°	3227.5	9.7
30°-40°	5288.4	15.9
40°-50°	7754.0	23.3
50°-60°	9766.8	29.3
60°-70°	3673.2	11.0
70°-80°	976.7	2.9
80°-90°	167.5	0.5
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°	33326.0	100.0
0°-180°	33326.0	100.0

**Coefficient of Utilization**



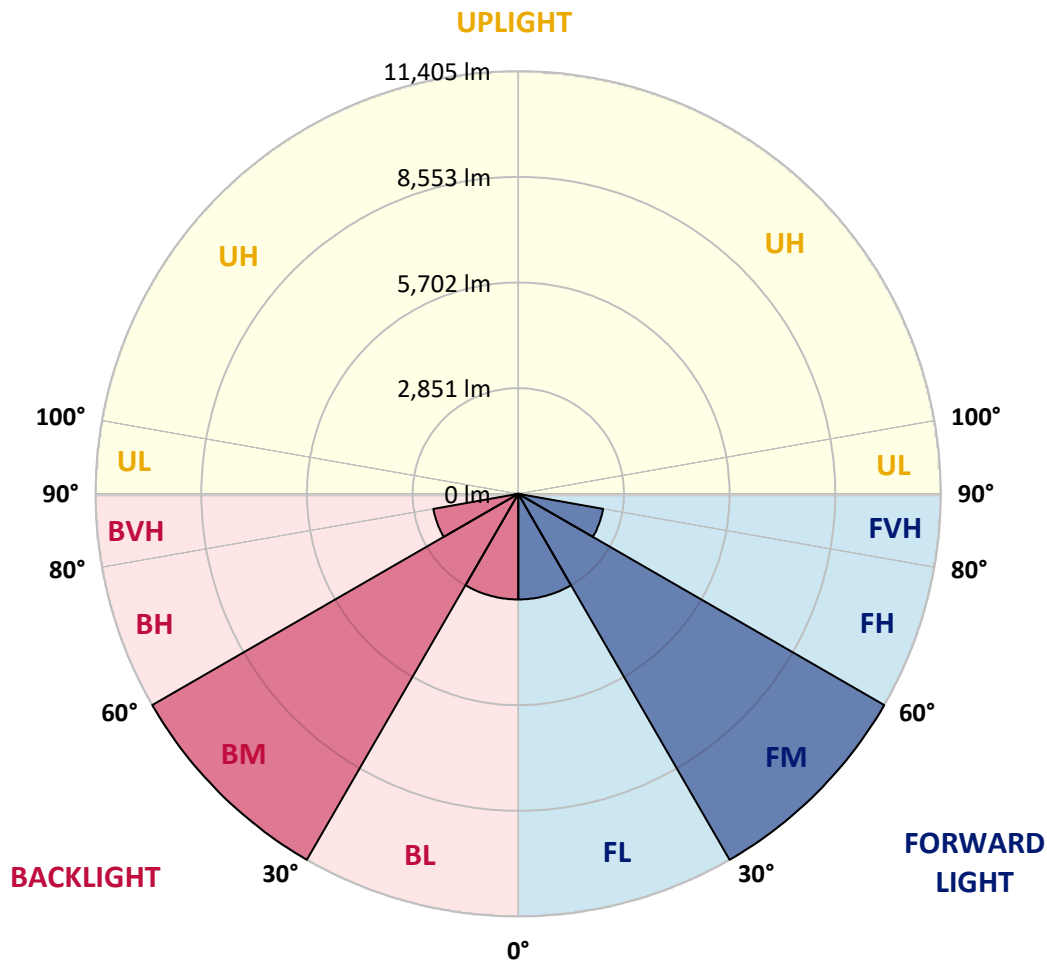
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2849.7	8.6			
FM (30°-60°)	11404.6	34.2			
FH (60°-80°)	2324.9	7.0			G2/5000
FVH (80°-90°)	83.7	0.3			G1/100
BL (0°-30°)	2849.7	8.6	B4/5000		
BM (30°-60°)	11404.6	34.2	B5		
BH (60°-80°)	2324.9	7.0	B3/2500		G2/5000
BVH (80°-90°)	83.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6581.6	6581.6	6581.6	6581.6	6581.6	6581.6	6581.6	6581.6	6581.6	6581.6	6581.6
2.5°	6548.8	6614.5	6585.7	6569.3	6581.6	6561.1	6528.3	6565.2	6557.0	6524.2	6511.8
5°	6532.4	6581.6	6548.8	6581.6	6548.8	6606.3	6589.9	6528.3	6602.2	6532.4	6557.0
7.5°	6520.1	6536.5	6544.7	6528.3	6515.9	6585.7	6548.8	6520.1	6479.0	6466.7	6487.2
10°	6491.3	6532.4	6470.8	6552.9	6569.3	6520.1	6520.1	6466.7	6433.8	6413.3	6483.1
12.5°	6565.2	6495.4	6487.2	6528.3	6540.6	6561.1	6503.6	6474.9	6413.3	6421.5	6409.2
15°	6479.0	6507.7	6511.8	6520.1	6532.4	6581.6	6528.3	6466.7	6442.0	6355.8	6364.0
17.5°	6511.8	6483.1	6511.8	6606.3	6589.9	6626.8	6569.3	6474.9	6417.4	6368.1	6433.8
20°	6569.3	6557.0	6569.3	6684.3	6704.8	6737.7	6688.4	6602.2	6491.3	6433.8	6466.7
22.5°	6630.9	6622.7	6630.9	6741.8	6860.8	6901.9	6852.6	6651.4	6594.0	6487.2	6450.3
25°	6741.8	6750.0	6836.2	6959.4	7037.4	7115.4	7025.1	6881.4	6696.6	6630.9	6552.9
27.5°	6988.1	7008.6	7057.9	7238.6	7374.1	7443.9	7316.6	7119.5	7004.5	6869.0	6848.5
30°	7291.9	7291.9	7378.2	7534.2	7719.0	7825.7	7669.7	7435.7	7296.1	7222.1	7177.0
32.5°	7694.3	7649.2	7682.0	7957.1	8244.5	8334.8	8125.4	7838.0	7616.3	7517.8	7484.9
35°	8039.2	8067.9	8141.9	8437.5	8757.7	8967.1	8638.7	8265.0	8039.2	7948.9	7932.5
37.5°	8486.7	8536.0	8573.0	8979.4	9365.4	9443.4	9127.3	8827.5	8552.4	8478.5	8437.5
40°	9119.0	9086.2	9098.5	9398.2	9747.2	9796.5	9484.5	9271.0	9045.1	9000.0	9000.0
42.5°	9640.5	9603.5	9644.6	9755.4	10022.3	9985.4	9812.9	9656.9	9562.5	9513.2	9562.5
45°	9956.6	9948.4	10022.3	10104.4	10293.3	10170.1	10034.6	10059.3	9968.9	9886.8	9882.7
47.5°	10301.5	10248.1	10338.5	10461.6	10317.9	10260.5	10252.2	10305.6	10276.9	10133.2	10088.0
50°	10469.9	10449.3	10593.0	10736.7	10658.7	10527.3	10556.1	10642.3	10272.8	10079.8	9968.9
52.5°	10921.5	10925.6	11200.7	11278.7	11245.9	11052.9	11114.5	10880.4	10445.2	10174.2	10186.6
55°	11631.8	11603.1	11911.0	12140.9	12177.9	11931.5	11635.9	11307.4	10761.4	10486.3	10404.2
57°	11241.8	11307.4	11648.2	12329.8	12674.7	12383.2	11738.6	11139.1	10412.4	10079.8	9932.0
57.5°	10720.3	10827.1	11418.3	12104.0	12465.3	12440.7	11611.3	10827.1	10178.3	9661.0	9673.3
60°	7854.4	7875.0	8408.7	9496.8	10625.9	10650.5	9640.5	8601.7	7879.1	7316.6	7394.6
62.5°	4142.8	4237.2	4450.7	5325.3	6302.4	6540.6	5928.8	5395.1	4771.0	4344.0	4385.0
65°	2192.5	2180.2	2282.8	2529.2	3009.6	3132.7	3050.6	2627.7	2410.1	2340.3	2344.4
67.5°	1781.9	1802.5	1790.1	1802.5	1835.3	1888.7	1876.4	1892.8	1905.1	1925.6	1921.5
70°	1510.9	1510.9	1519.2	1523.3	1523.3	1547.9	1576.6	1630.0	1634.1	1654.6	1662.9
72.5°	1190.7	1182.5	1194.8	1223.5	1227.6	1248.2	1289.2	1322.1	1334.4	1334.4	1309.8
75°	808.8	817.1	833.5	858.1	882.8	919.7	952.6	973.1	981.3	969.0	956.7
77.5°	455.7	464.0	476.3	513.2	542.0	574.8	611.8	632.3	652.8	656.9	632.3
80°	271.0	271.0	291.5	320.3	353.1	385.9	418.8	443.4	451.6	451.6	439.3
82.5°	164.2	168.3	184.8	213.5	242.2	262.8	291.5	312.0	328.5	324.4	316.1
85°	86.2	86.2	102.6	127.3	147.8	168.3	168.3	156.0	147.8	127.3	119.1
87.5°	28.7	24.6	32.8	32.8	28.7	32.8	32.8	37.0	37.0	37.0	37.0
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)