

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: P457238

Luminaire Tested: **GALN-SA8C-750-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457238  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8C-750-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59247 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

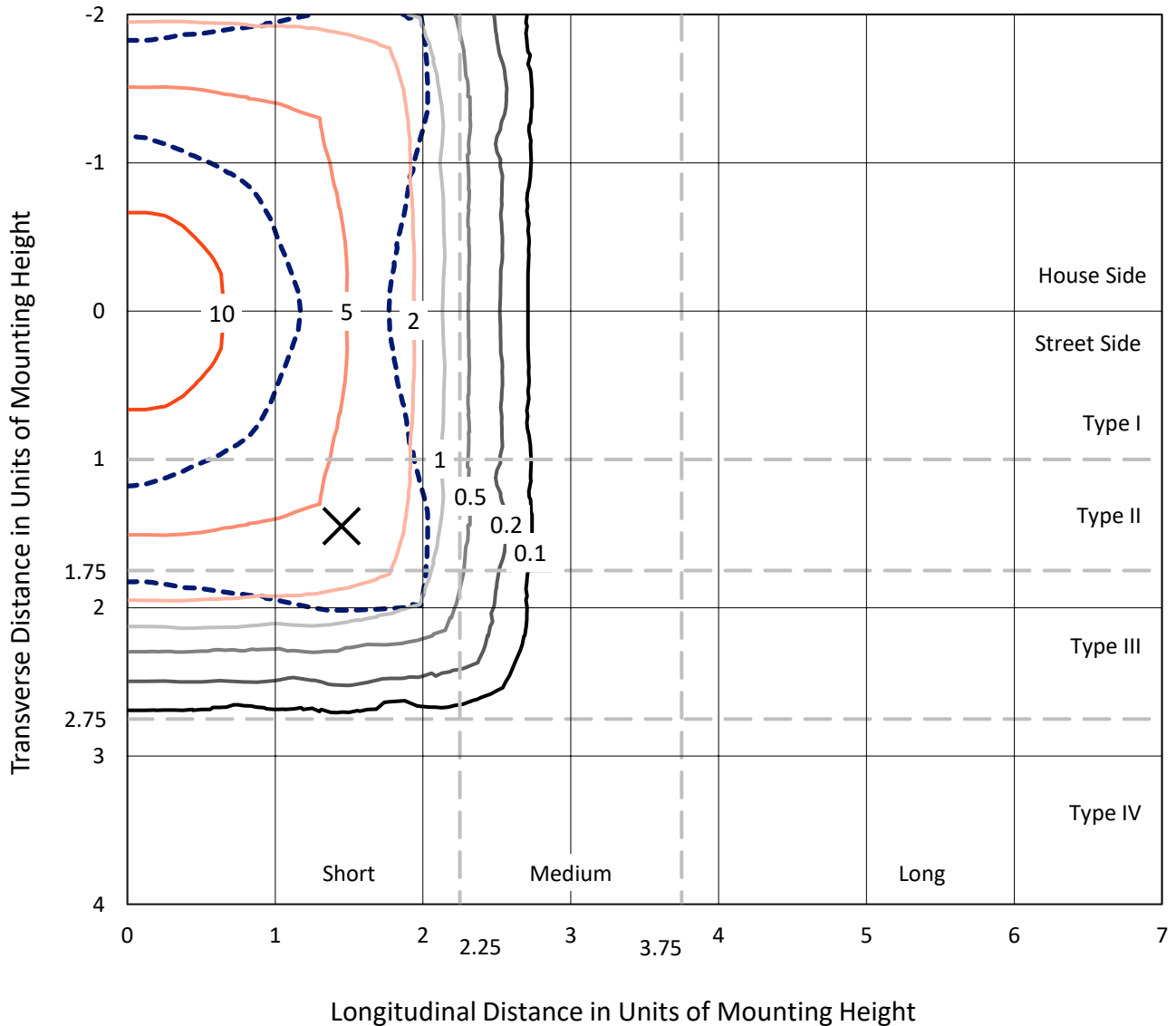
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

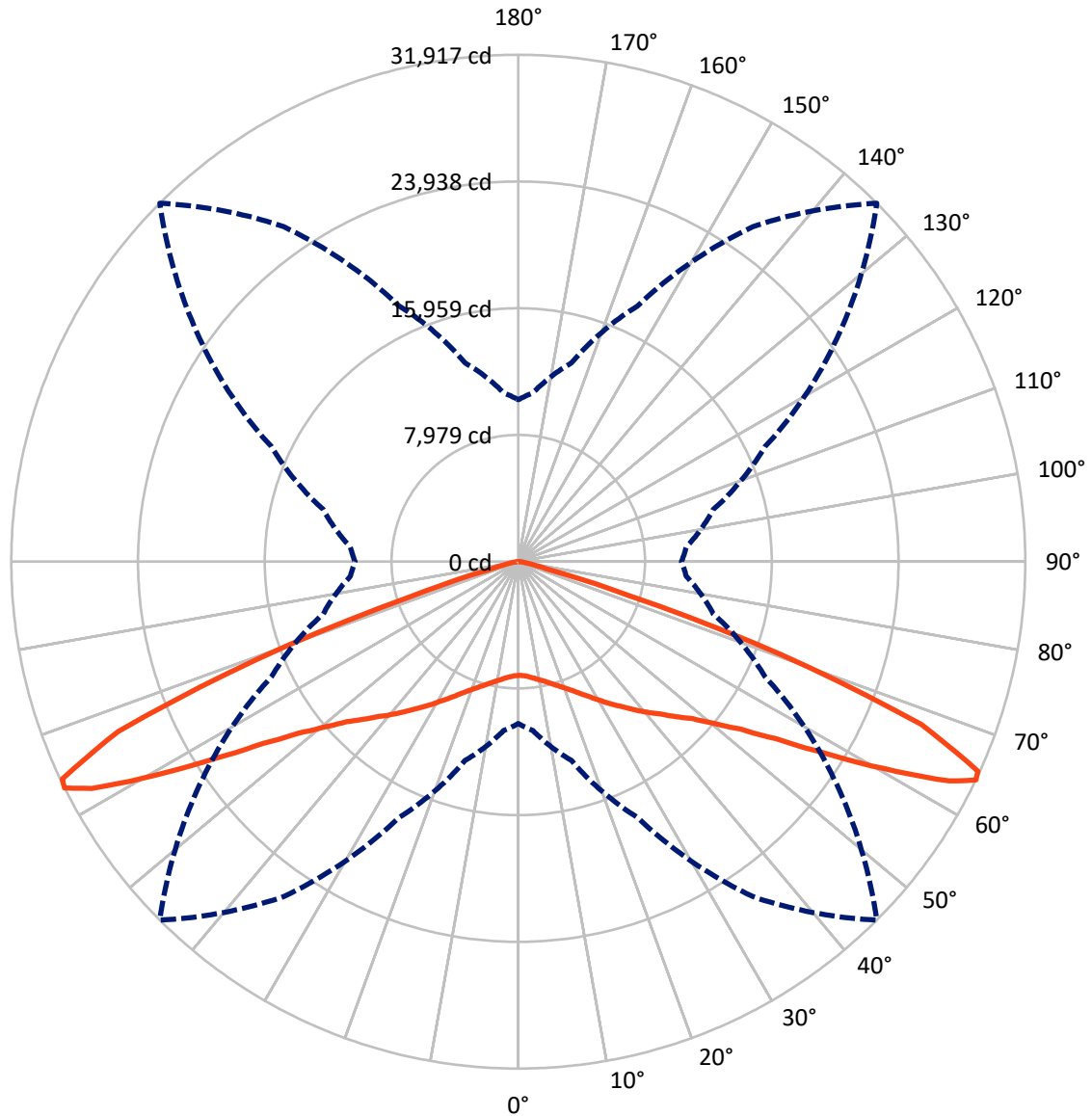
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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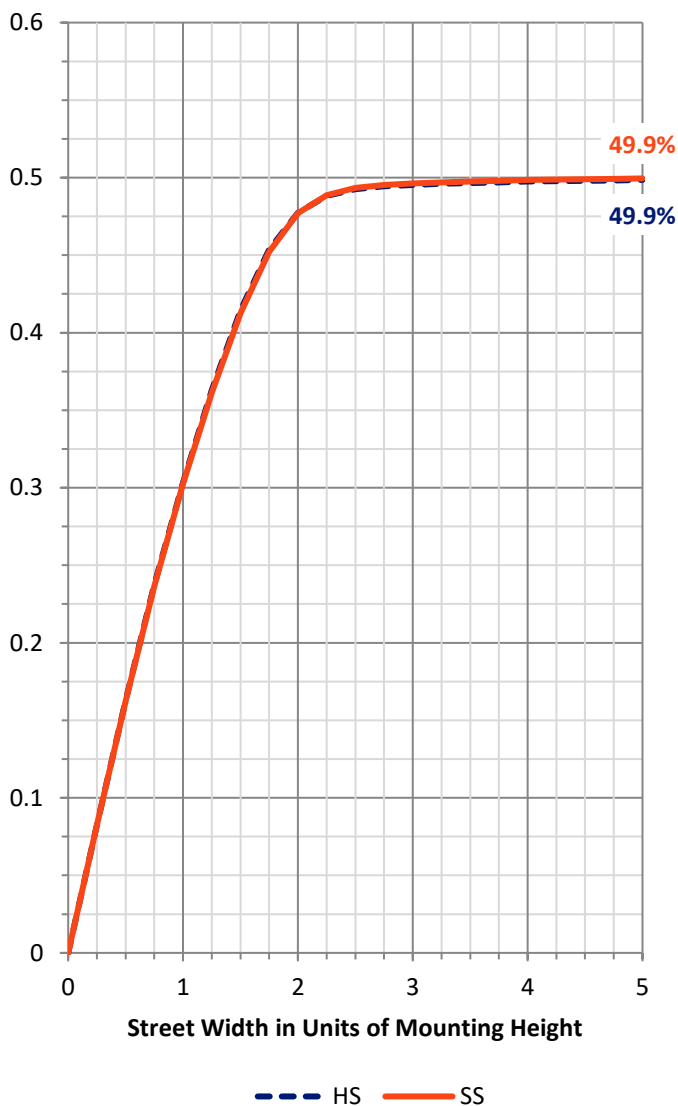
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	29623.5	0.0	29623.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	29623.5	0.0	29623.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	59247.0	0.0	59247.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	703.5	1.2
10°-20°	2269.3	3.8
20°-30°	4288.3	7.2
30°-40°	7102.0	12.0
40°-50°	11087.3	18.7
50°-60°	17140.7	28.9
60°-70°	14780.2	24.9
70°-80°	1675.0	2.8
80°-90°	200.7	0.3
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°	59247.0	100.0
0°-180°	59247.0	100.0

**Coefficient of Utilization**



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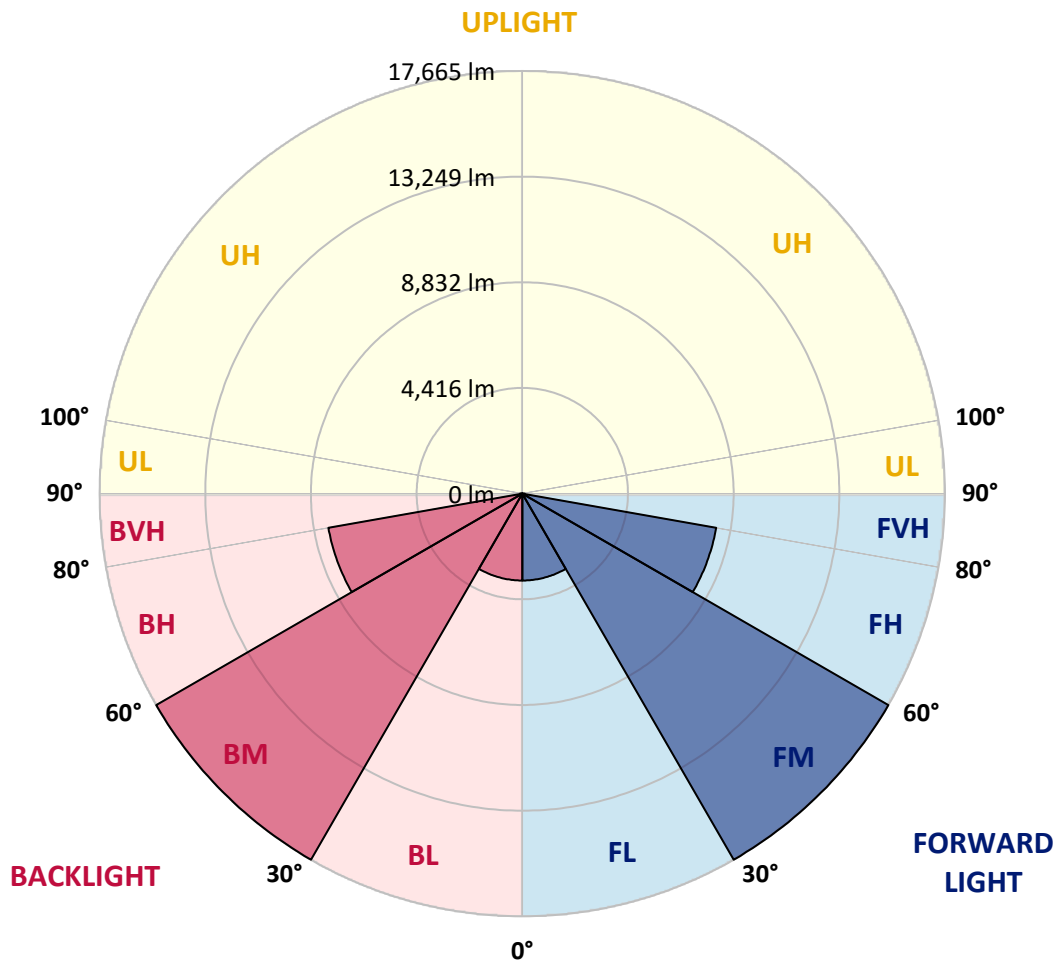
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3630.6	6.1			
FM	(30°-60°)	17665.0	29.8			
FH	(60°-80°)	8227.6	13.9			G4/12000
FVH	(80°-90°)	100.3	0.2			G2/225
BL	(0°-30°)	3630.6	6.1	B4/5000		
BM	(30°-60°)	17665.0	29.8	B5		
BH	(60°-80°)	8227.6	13.9	B5		G4/12000
BVH	(80°-90°)	100.3	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7161.0	7161.0	7161.0	7161.0	7161.0	7161.0	7161.0	7161.0	7161.0	7161.0	7161.0
2.5°	7189.2	7204.9	7192.4	7189.2	7186.1	7186.1	7189.2	7201.8	7211.2	7204.9	7204.9
5°	7280.2	7292.8	7286.5	7283.4	7280.2	7283.4	7277.1	7274.0	7283.4	7283.4	7280.2
7.5°	7393.2	7408.9	7402.6	7408.9	7412.0	7415.2	7399.5	7386.9	7383.8	7393.2	7386.9
10°	7547.0	7559.5	7562.7	7565.8	7572.1	7568.9	7550.1	7528.1	7525.0	7521.9	7518.7
12.5°	7719.6	7729.0	7732.1	7744.7	7754.1	7757.2	7735.3	7716.4	7685.0	7691.3	7678.8
15°	7914.1	7933.0	7929.8	7948.6	7973.7	7980.0	7958.1	7926.7	7898.4	7882.7	7873.3
17.5°	8152.6	8165.2	8158.9	8177.7	8209.1	8224.8	8206.0	8165.2	8136.9	8102.4	8083.6
20°	8435.0	8457.0	8463.3	8463.3	8491.5	8507.2	8479.0	8466.4	8422.5	8397.4	8381.7
22.5°	8755.1	8764.5	8783.4	8802.2	8830.4	8824.2	8814.7	8795.9	8755.1	8733.2	8708.0
25°	9116.0	9125.4	9172.5	9213.3	9222.7	9216.4	9203.9	9194.4	9156.8	9106.6	9087.7
27.5°	9536.5	9555.3	9618.1	9655.7	9655.7	9658.9	9633.8	9665.1	9583.6	9523.9	9517.7
30°	10063.7	10076.2	10129.6	10167.2	10148.4	10132.7	10126.4	10157.8	10070.0	9963.3	9938.2
32.5°	10584.6	10628.5	10675.6	10757.2	10691.3	10663.0	10656.8	10678.7	10578.3	10459.1	10424.6
35°	11143.2	11174.5	11262.4	11331.4	11271.8	11205.9	11234.2	11303.2	11184.0	11023.9	11017.6
37.5°	11761.4	11789.6	11902.6	11974.7	11930.8	11817.8	11864.9	11946.5	11827.3	11629.6	11588.8
40°	12404.7	12464.3	12605.5	12680.8	12608.6	12458.0	12545.9	12633.7	12527.0	12298.0	12207.0
42.5°	13126.4	13220.5	13424.5	13462.2	13324.1	13120.1	13273.9	13415.1	13339.8	13076.2	13041.7
45°	13970.5	14027.0	14278.1	14359.6	14168.2	13914.0	14105.5	14362.8	14306.3	14001.9	13936.0
47.5°	14915.1	14968.4	15228.9	15351.3	15109.6	14767.6	15112.8	15448.5	15414.0	15087.7	15056.3
50°	16032.2	16044.8	16405.6	16543.7	16302.1	16007.1	16314.6	16732.0	16593.9	16176.6	16170.3
52.5°	17256.1	17271.7	17726.8	17993.5	17858.6	17525.9	17889.9	18144.1	17792.7	17246.6	17205.8
55°	18316.7	18395.2	19016.5	19725.7	19910.8	19669.2	19779.0	19659.8	18793.7	18028.0	17908.8
57.5°	18749.8	18903.5	19848.1	21172.3	22377.3	22735.1	21887.8	20751.8	19192.2	18109.6	17993.5
60°	17692.2	17858.6	19324.0	21837.6	24912.9	26466.2	24084.4	20937.0	18285.3	16763.4	16581.4
62.5°	14168.2	14215.3	16371.1	20271.7	26390.9	30413.8	25010.1	19358.5	15646.2	13578.3	13506.1
64°	10195.5	10678.7	12963.2	17773.8	25744.4	31917.0	24476.7	17146.2	12709.0	10616.0	10277.1
65°	7625.4	7757.2	10449.7	15178.7	24605.3	31804.0	23441.1	15031.2	10525.0	8124.4	7747.8
67.5°	2880.7	2896.4	3856.6	7565.8	17516.5	27363.7	17889.9	8177.7	4434.0	3207.1	3091.0
70°	1195.6	1217.6	1415.3	2544.9	7528.1	17569.9	8626.5	2949.8	1622.4	1314.8	1296.0
72.5°	875.5	888.1	947.7	1129.7	2315.9	7214.3	2836.8	1252.1	950.8	850.4	841.0
75°	687.2	693.5	737.4	831.6	1079.5	1998.9	1179.9	859.8	724.9	652.7	646.4
77.5°	524.1	539.7	571.1	633.9	724.9	947.7	781.4	643.3	558.6	498.9	489.5
80°	360.9	379.7	439.3	464.4	486.4	615.1	533.5	486.4	436.2	364.0	342.0
82.5°	222.8	235.4	295.0	316.9	307.5	345.2	342.0	348.3	310.7	225.9	210.2
85°	116.1	122.4	160.0	166.3	153.8	141.2	175.7	204.0	191.4	128.7	125.5
87.5°	25.1	28.2	34.5	31.4	34.5	34.5	43.9	65.9	69.0	43.9	40.8
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)