

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: P457440

Luminaire Tested: **GALN-SA8D-740-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8D-740-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 65517 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

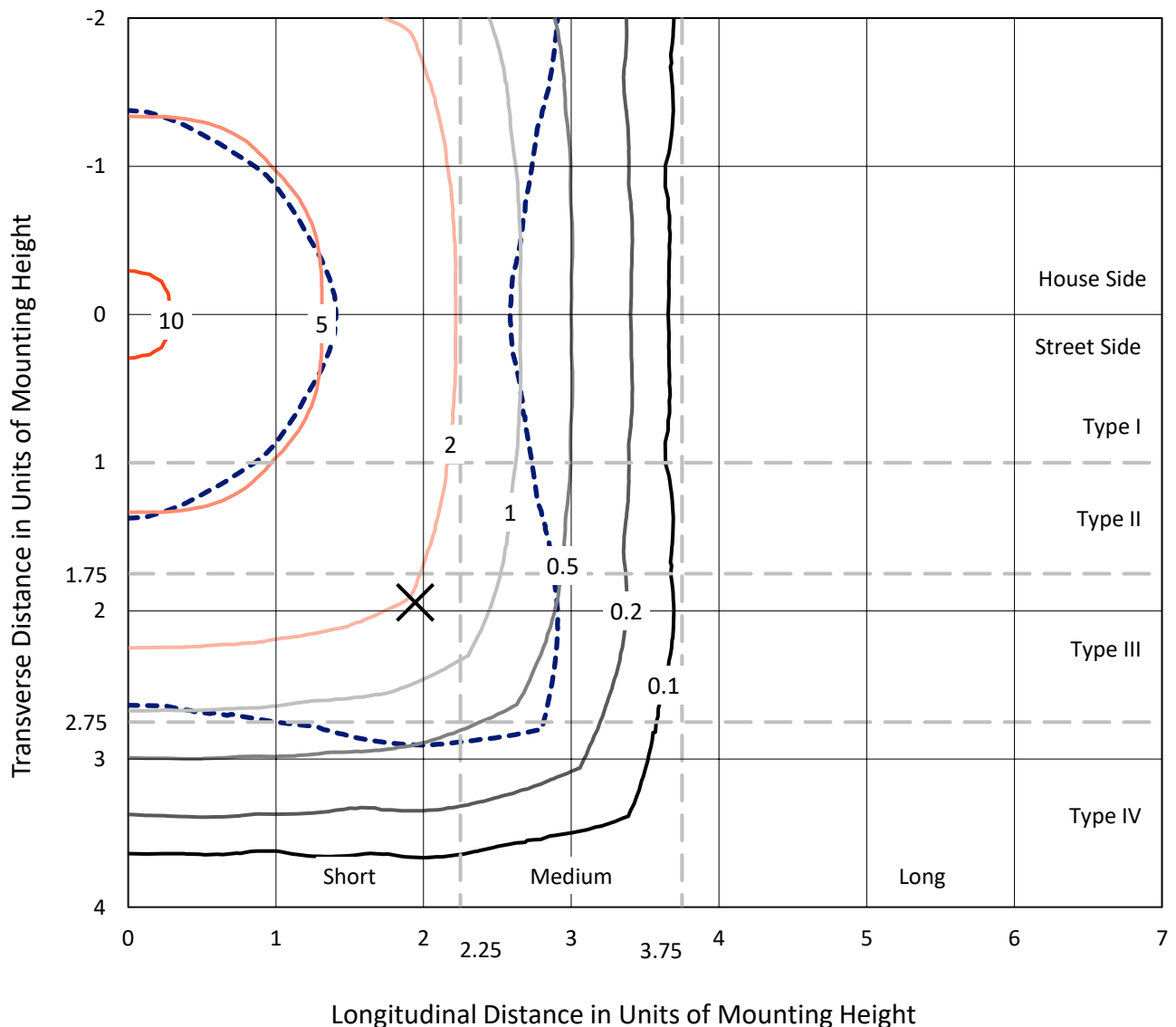
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

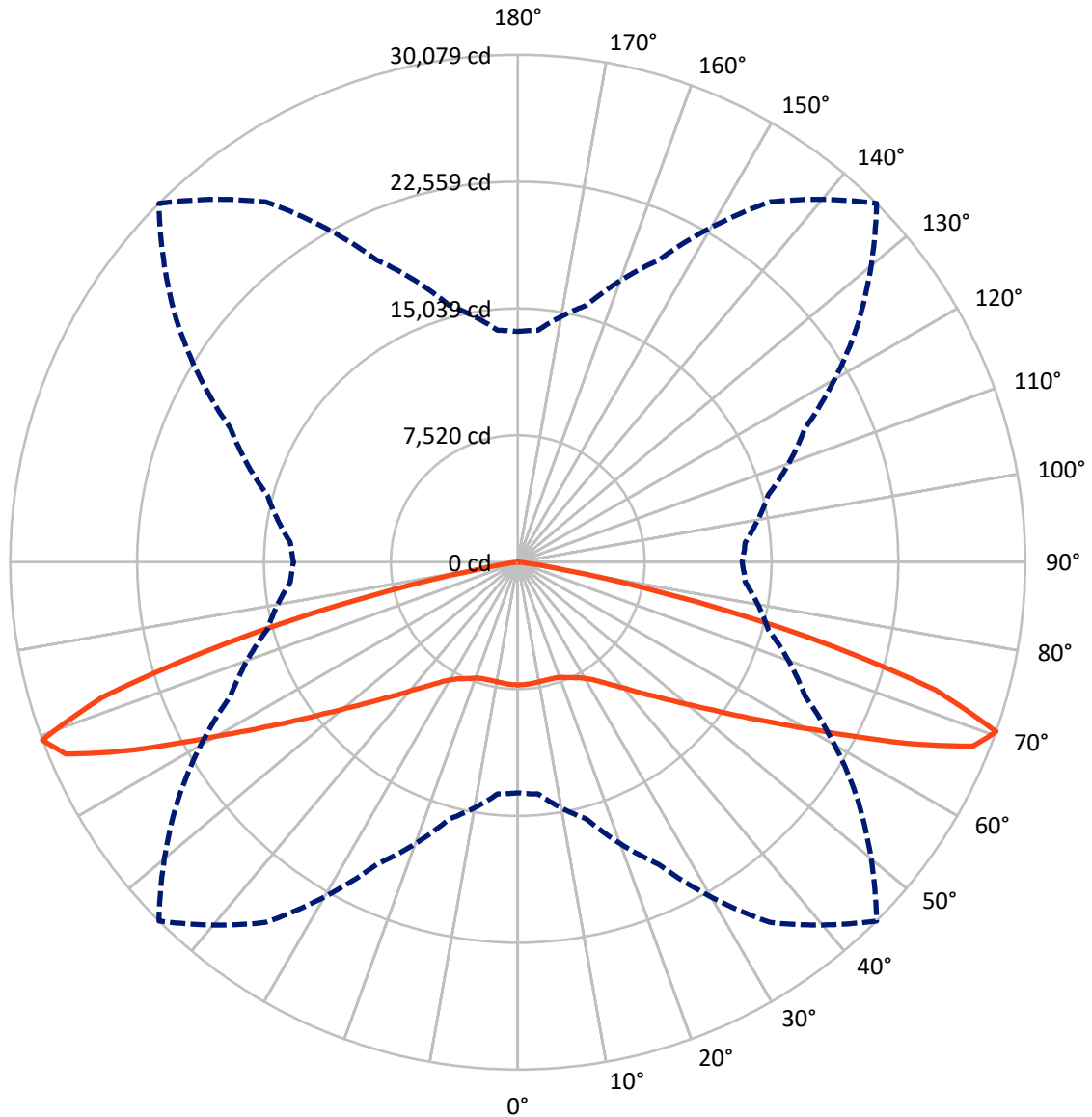
× Max cd  
 - - - 1/2 Max cd



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 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	32758.5	0.0	32758.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	32758.5	0.0	32758.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	65517.0	0.0	65517.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	689.9	1.1
10°-20°	2024.5	3.1
20°-30°	3462.5	5.3
30°-40°	5495.7	8.4
40°-50°	8866.1	13.5
50°-60°	14425.3	22.0
60°-70°	20911.5	31.9
70°-80°	9275.6	14.2
80°-90°	365.8	0.6
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°	65517.0	100.0
0°-180°	65517.0	100.0



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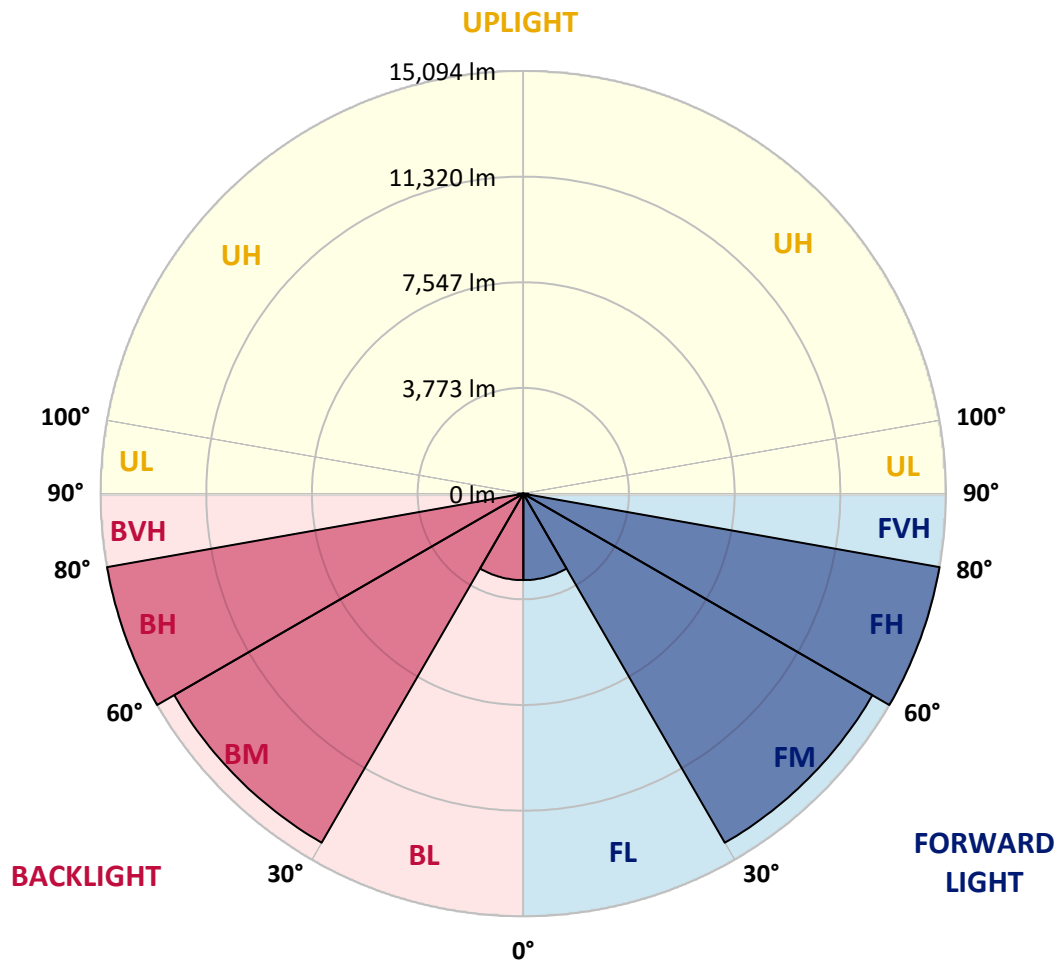
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3088.5	4.7			
FM (30°-60°)	14393.6	22.0			
FH (60°-80°)	15093.6	23.0			G5
FVH (80°-90°)	182.9	0.3			G2/225
BL (0°-30°)	3088.5	4.7	B4/5000		
BM (30°-60°)	14393.6	22.0	B5		
BH (60°-80°)	15093.6	23.0	B5		G5
BVH (80°-90°)	182.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7275.4	7275.4	7275.4	7275.4	7275.4	7275.4	7275.4	7275.4	7275.4	7275.4	7275.4
2.5°	7275.4	7282.3	7271.9	7265.0	7261.5	7261.5	7258.1	7261.5	7282.3	7285.7	7275.4
5°	7254.6	7261.5	7258.1	7251.2	7247.7	7247.7	7244.3	7240.8	7258.1	7265.0	7261.5
7.5°	7227.0	7230.5	7227.0	7223.6	7227.0	7223.6	7213.2	7206.3	7220.1	7220.1	7216.7
10°	7178.7	7185.6	7182.1	7185.6	7192.5	7192.5	7178.7	7164.9	7168.3	7161.4	7161.4
12.5°	7120.0	7130.3	7133.8	7147.6	7164.9	7185.6	7154.5	7123.4	7116.5	7113.1	7109.6
15°	7082.0	7092.3	7106.2	7120.0	7151.0	7195.9	7151.0	7102.7	7088.9	7075.1	7068.2
17.5°	7071.6	7085.4	7106.2	7126.9	7168.3	7213.2	7175.2	7126.9	7092.3	7071.6	7064.7
20°	7099.3	7109.6	7140.7	7178.7	7237.4	7282.3	7244.3	7192.5	7140.7	7109.6	7099.3
22.5°	7154.5	7171.8	7209.7	7278.8	7361.7	7427.3	7375.5	7289.2	7206.3	7164.9	7151.0
25°	7275.4	7289.2	7334.1	7427.3	7524.0	7586.1	7530.9	7430.7	7316.8	7261.5	7244.3
27.5°	7458.4	7479.1	7527.4	7637.9	7717.3	7751.9	7713.9	7644.8	7561.9	7503.2	7489.4
30°	7717.3	7741.5	7814.0	7931.4	7983.2	8003.9	7986.7	7941.8	7883.1	7820.9	7807.1
32.5°	8066.1	8079.9	8162.8	8273.3	8321.6	8328.5	8307.8	8287.1	8190.4	8086.8	8079.9
35°	8456.3	8480.4	8580.6	8711.8	8756.7	8760.1	8718.7	8687.6	8573.7	8490.8	8490.8
37.5°	8974.2	8984.6	9081.2	9229.7	9278.1	9264.3	9243.5	9215.9	9095.1	8988.0	8991.5
40°	9581.9	9602.6	9685.5	9858.2	9858.2	9840.9	9854.7	9834.0	9713.1	9609.5	9613.0
42.5°	10303.6	10313.9	10414.1	10597.1	10583.3	10548.7	10562.6	10534.9	10459.0	10341.6	10300.1
45°	11073.6	11115.0	11287.7	11463.8	11436.2	11325.7	11380.9	11374.0	11304.9	11128.8	11139.2
47.5°	12002.4	12071.5	12237.2	12447.9	12416.8	12244.1	12306.3	12347.7	12251.0	12057.7	12023.2
50°	13048.7	13093.6	13338.7	13535.5	13507.9	13324.9	13466.5	13473.4	13231.7	12958.9	12958.9
52.5°	14164.0	14208.9	14540.3	14847.7	14864.9	14599.0	14713.0	14706.1	14312.5	13953.3	13884.3
55°	15413.9	15434.7	15862.8	16315.2	16411.8	16152.9	16166.7	16028.6	15517.5	15099.7	15061.7
57.5°	16705.3	16781.3	17254.4	17841.4	18128.0	17969.1	17896.6	17527.1	17033.4	16553.4	16529.2
60°	18134.9	18138.3	18752.9	19447.0	20027.1	20134.1	19837.2	19343.4	18704.6	18069.3	18041.6
62.5°	19125.9	19274.3	20051.2	21225.2	22264.6	22865.4	22081.6	21045.7	19788.8	18763.3	18659.7
65°	19329.6	19429.7	20614.1	22603.0	24726.5	26021.4	24208.6	22005.6	19861.3	18494.0	18424.9
67.5°	17682.5	17789.6	19384.8	22437.2	26453.0	29108.3	25589.8	21542.9	18632.1	16940.1	16805.5
70°	13677.1	13798.0	15769.6	19750.8	26069.7	30078.6	24605.7	18790.9	15365.6	13539.0	13293.8
72.5°	7271.9	7717.3	9402.4	13556.3	21159.6	25897.1	20175.6	13711.6	9910.0	8100.6	7776.0
75°	2655.3	2710.6	3649.8	6011.6	12309.7	17758.5	12782.8	6539.9	3760.3	2903.9	2755.4
77.5°	1098.0	1094.6	1201.6	1816.2	4471.6	9095.1	4989.5	1919.8	1198.2	1108.4	1094.6
80°	649.2	649.2	714.8	756.2	1177.5	2745.1	1315.6	856.3	718.2	656.1	666.4
82.5°	290.0	307.3	452.3	476.5	569.7	752.7	635.3	545.6	469.6	324.6	293.5
85°	158.8	138.1	238.3	248.6	272.8	279.7	300.4	297.0	272.8	158.8	162.3
87.5°	31.1	38.0	69.1	51.8	58.7	51.8	69.1	96.7	100.1	55.2	44.9
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)