

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: P529863

Luminaire Tested: **GALN-SA5A-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529863  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-740-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11946 lumens  
Efficiency: N/A  
Efficacy: 77.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

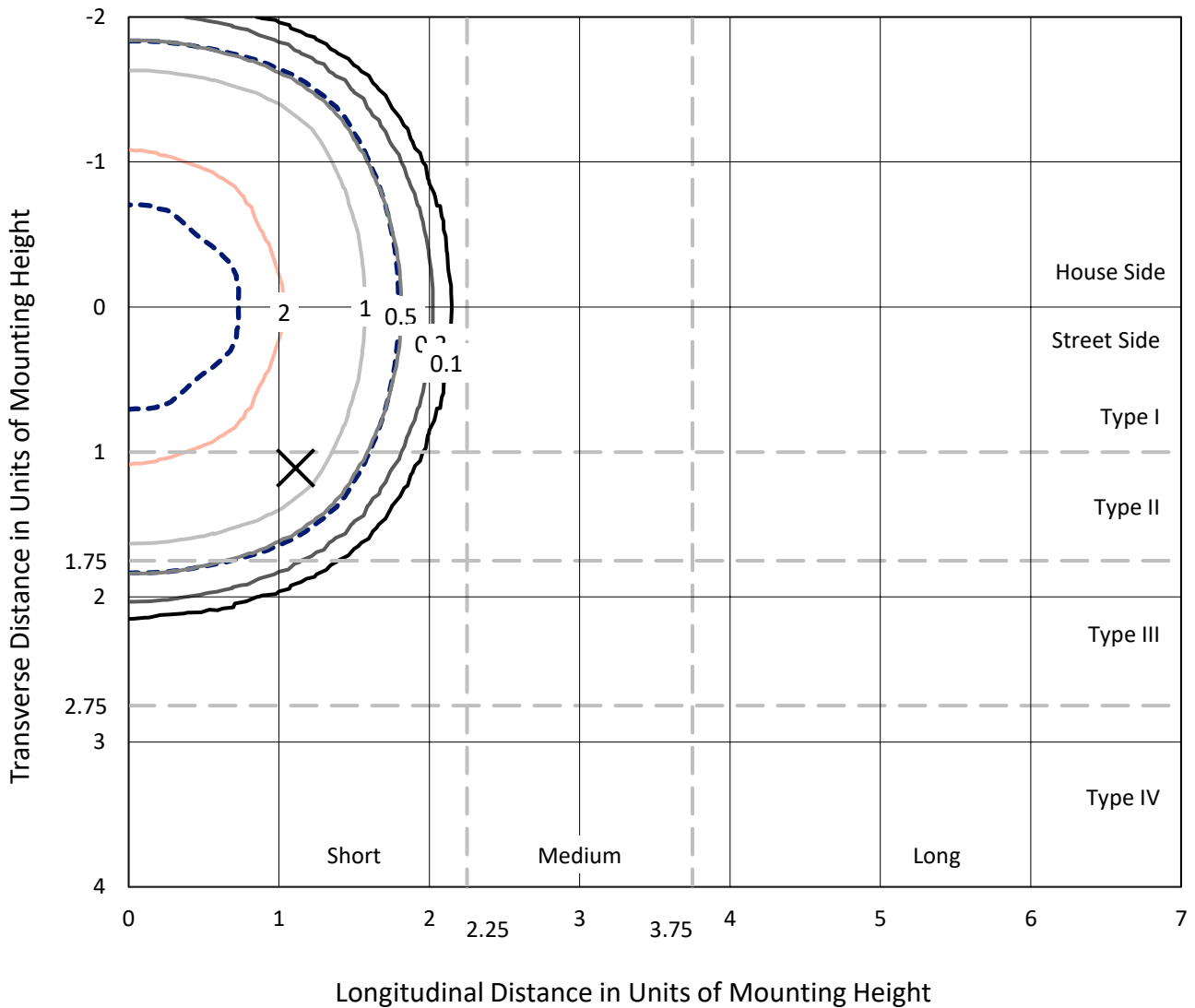
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

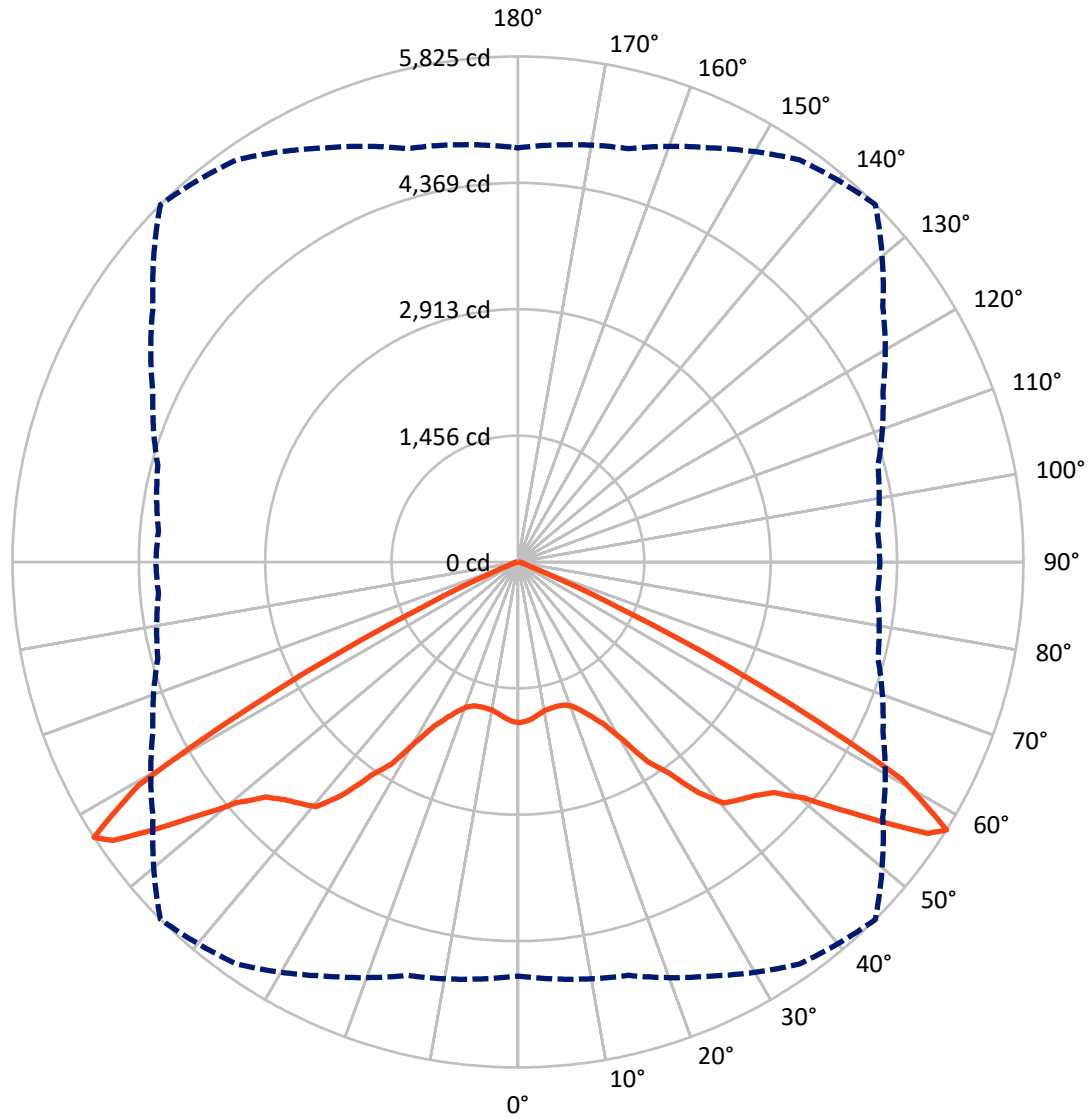
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5973.0	0.0	5973.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5973.0	0.0	5973.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11946.0	0.0	11946.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.3	1.4
10°-20°	492.2	4.1
20°-30°	908.5	7.6
30°-40°	1786.7	15.0
40°-50°	2910.0	24.4
50°-60°	4150.0	34.7
60°-70°	1436.8	12.0
70°-80°	77.1	0.6
80°-90°	14.5	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°	11946.0	100.0
0°-180°	11946.0	100.0

**Coefficient of Utilization**

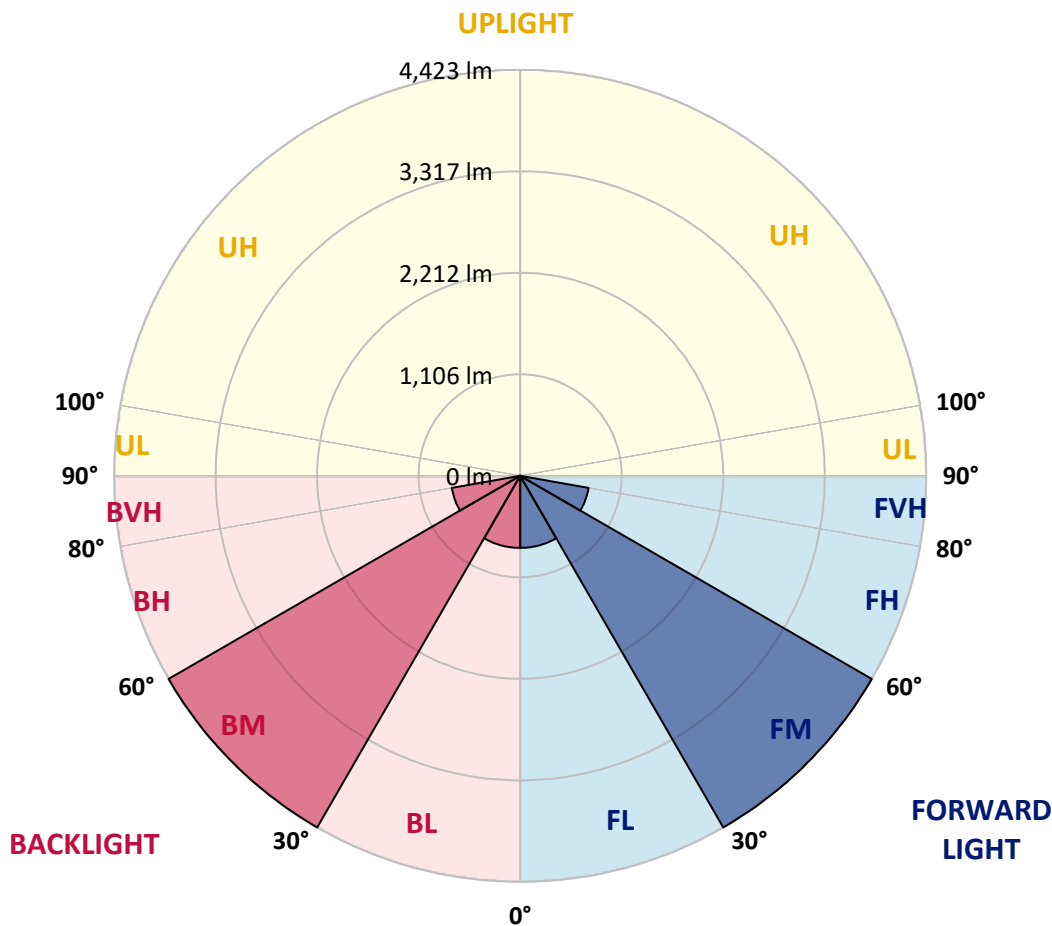


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	785.5	6.6			
FM (30°-60°)	4423.3	37.0			
FH (60°-80°)	757.0	6.3			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	785.5	6.6	B2/1000		
BM (30°-60°)	4423.3	37.0	B3/5000		
BH (60°-80°)	757.0	6.3	B2/1000		G1/1800
BVH (80°-90°)	7.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1852.9	1852.9	1852.9	1852.9	1852.9	1852.9	1852.9	1852.9	1852.9	1852.9	1852.9
2.5°	1848.0	1857.9	1845.5	1840.5	1838.0	1838.0	1830.5	1830.5	1828.0	1830.5	1820.6
5°	1818.1	1828.0	1828.0	1825.6	1810.6	1808.1	1800.6	1795.7	1798.2	1788.2	1795.7
7.5°	1788.2	1795.7	1785.7	1783.2	1778.2	1768.3	1765.8	1743.4	1745.9	1745.9	1750.8
10°	1783.2	1780.7	1765.8	1753.3	1738.4	1735.9	1728.4	1723.4	1723.4	1721.0	1728.4
12.5°	1783.2	1770.8	1768.3	1740.9	1716.0	1725.9	1706.0	1693.6	1711.0	1716.0	1725.9
15°	1780.7	1793.2	1750.8	1738.4	1721.0	1723.4	1706.0	1693.6	1703.5	1708.5	1716.0
17.5°	1795.7	1788.2	1775.7	1750.8	1743.4	1733.4	1711.0	1701.0	1701.0	1713.5	1716.0
20°	1835.5	1815.6	1790.7	1778.2	1785.7	1773.3	1745.9	1708.5	1718.5	1728.4	1735.9
22.5°	1872.9	1857.9	1840.5	1833.0	1875.4	1855.4	1808.1	1765.8	1750.8	1768.3	1780.7
25°	1945.1	1945.1	1912.7	1922.7	1970.0	1972.5	1917.7	1843.0	1833.0	1840.5	1845.5
27.5°	2092.0	2099.5	2072.1	2082.1	2102.0	2119.4	2072.1	2009.9	1987.4	1984.9	1992.4
30°	2251.4	2266.4	2263.9	2306.2	2363.5	2373.5	2303.7	2201.6	2134.4	2121.9	2131.9
32.5°	2460.6	2468.1	2463.1	2512.9	2667.4	2739.6	2557.8	2413.3	2323.7	2346.1	2323.7
35°	2854.1	2846.7	2791.9	2801.8	2928.9	2981.2	2806.8	2714.7	2672.3	2717.2	2707.2
37.5°	3192.9	3165.5	3120.6	3185.4	3317.4	3364.7	3182.9	3021.0	2943.8	3018.5	3050.9
40°	3479.3	3409.5	3347.3	3412.0	3588.8	3653.6	3387.1	3255.1	3225.2	3280.0	3349.8
42.5°	3720.8	3676.0	3593.8	3598.8	3715.9	3745.7	3531.6	3454.4	3424.5	3511.6	3546.5
45°	3892.7	3850.3	3773.1	3768.2	3857.8	3837.9	3646.1	3593.8	3611.3	3668.5	3686.0
47.5°	3979.9	4002.3	3957.4	3969.9	4017.2	3969.9	3818.0	3818.0	3778.1	3813.0	3795.6
50°	4231.4	4161.7	4218.9	4218.9	4268.8	4273.7	4121.8	4067.0	3959.9	3900.2	3900.2
52.5°	4525.3	4530.3	4552.7	4634.9	4719.5	4791.8	4575.1	4341.0	4161.7	4084.5	4074.5
55°	4766.9	4816.7	4906.3	5060.7	5304.8	5404.4	5030.9	4612.5	4393.3	4273.7	4248.8
56°	4898.9	4851.5	5006.0	5217.6	5536.4	5665.9	5105.6	4667.2	4425.7	4291.2	4288.7
57.5°	4771.8	4824.1	4931.2	5265.0	5656.0	5825.3	5133.0	4642.3	4296.2	4159.2	4171.6
60°	3768.2	3818.0	3962.4	4336.0	4948.7	5080.7	4343.5	3827.9	3519.1	3322.4	3324.8
62.5°	2131.9	2169.2	2281.3	2627.5	3008.6	3135.6	2707.2	2363.5	2149.3	2039.7	2004.9
65°	784.5	769.6	787.0	963.8	1197.9	1305.0	1125.7	951.4	839.3	799.5	784.5
67.5°	293.9	271.5	254.0	271.5	341.2	361.1	331.2	276.4	259.0	266.5	271.5
70°	181.8	171.8	137.0	129.5	127.0	124.5	132.0	139.5	159.4	186.8	191.8
72.5°	127.0	119.5	97.1	92.1	87.2	84.7	97.1	107.1	124.5	144.5	146.9
75°	49.8	52.3	49.8	54.8	57.3	59.8	69.7	77.2	84.7	84.7	82.2
77.5°	10.0	10.0	14.9	19.9	24.9	32.4	47.3	54.8	57.3	54.8	47.3
80°	0.0	0.0	5.0	10.0	19.9	27.4	42.3	47.3	52.3	47.3	37.4
82.5°	0.0	0.0	5.0	12.5	19.9	24.9	39.8	49.8	57.3	52.3	39.8
85°	0.0	0.0	5.0	10.0	14.9	17.4	17.4	12.5	12.5	7.5	5.0
87.5°	0.0	0.0	0.0	0.0	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)