

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: P452341

Luminaire Tested: **GALN-SA3B-740-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-740-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17526 lumens  
Efficiency: N/A  
Efficacy: 144.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

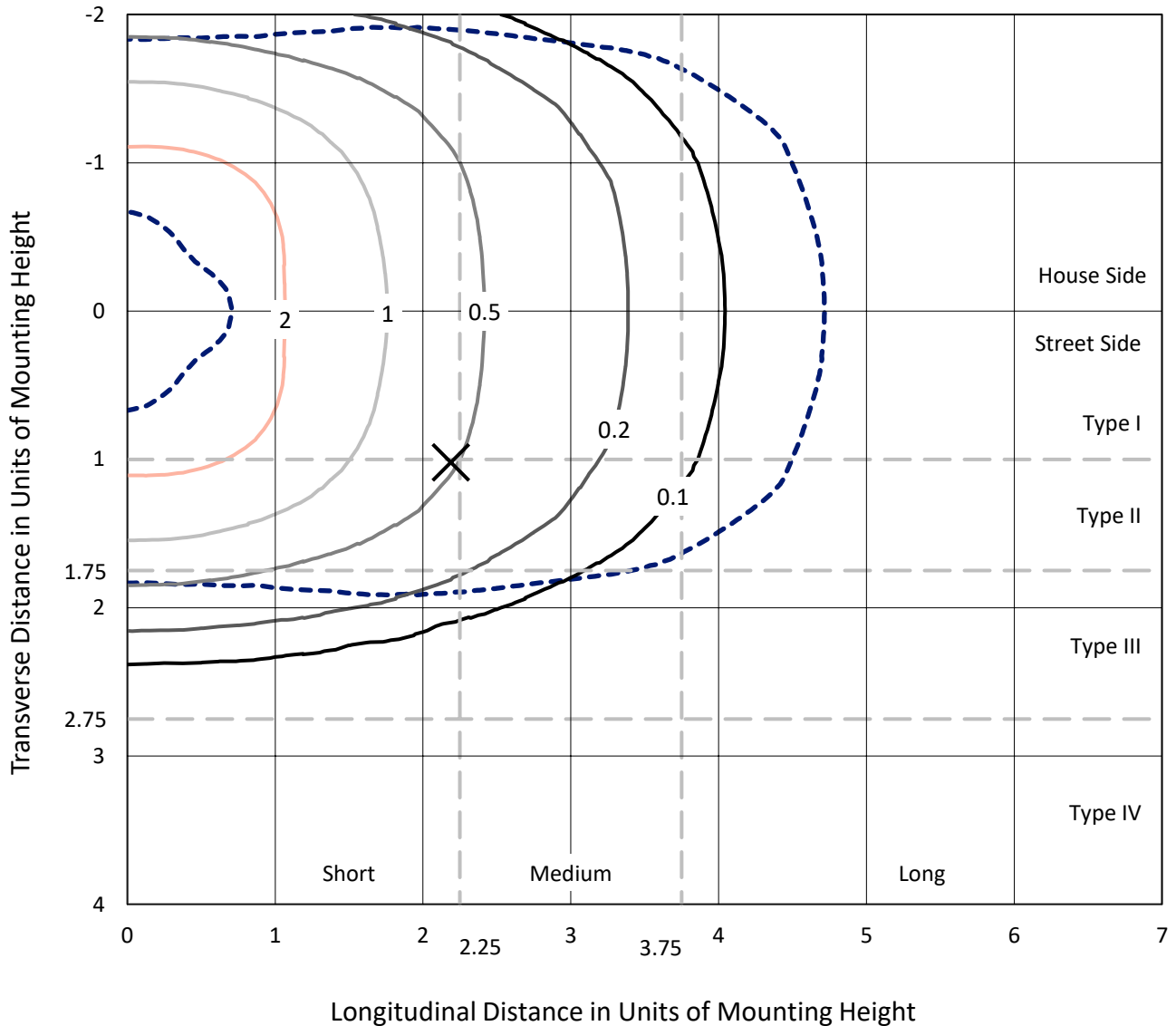
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

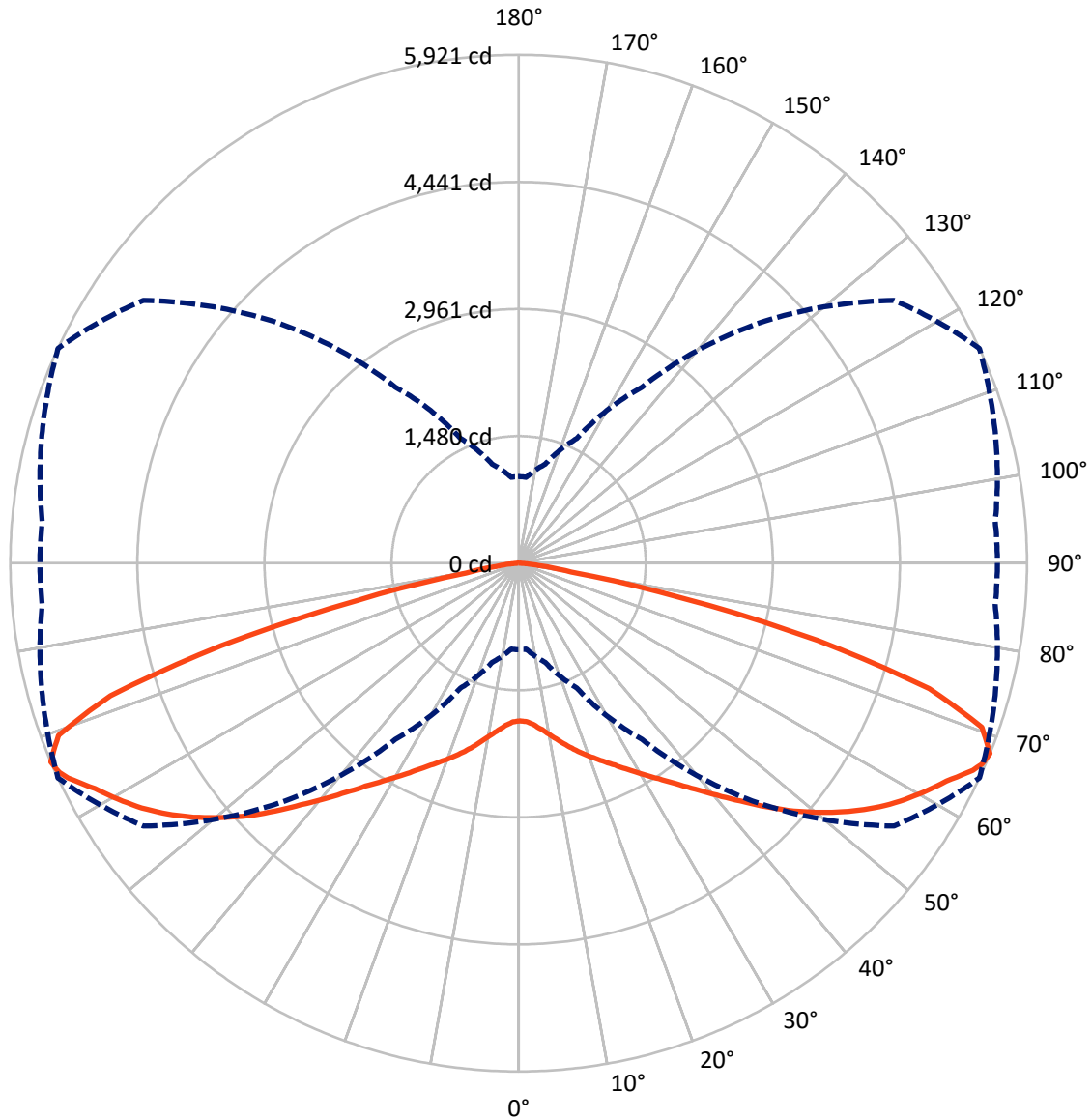
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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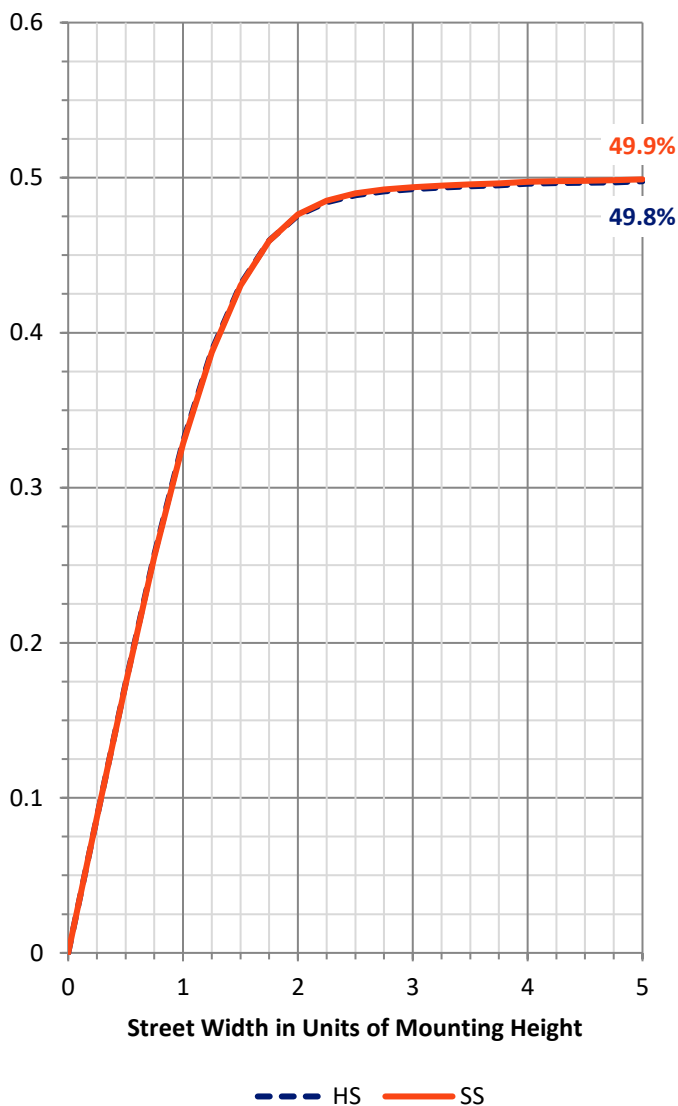
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8763.0	0.0	8763.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8763.0	0.0	8763.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17526.0	0.0	17526.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.1	1.0
10°-20°	606.0	3.5
20°-30°	1185.3	6.8
30°-40°	2016.0	11.5
40°-50°	3190.8	18.2
50°-60°	4230.9	24.1
60°-70°	3991.0	22.8
70°-80°	1973.0	11.3
80°-90°	152.0	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°	17526.0	100.0
0°-180°	17526.0	100.0

**Coefficient of Utilization**



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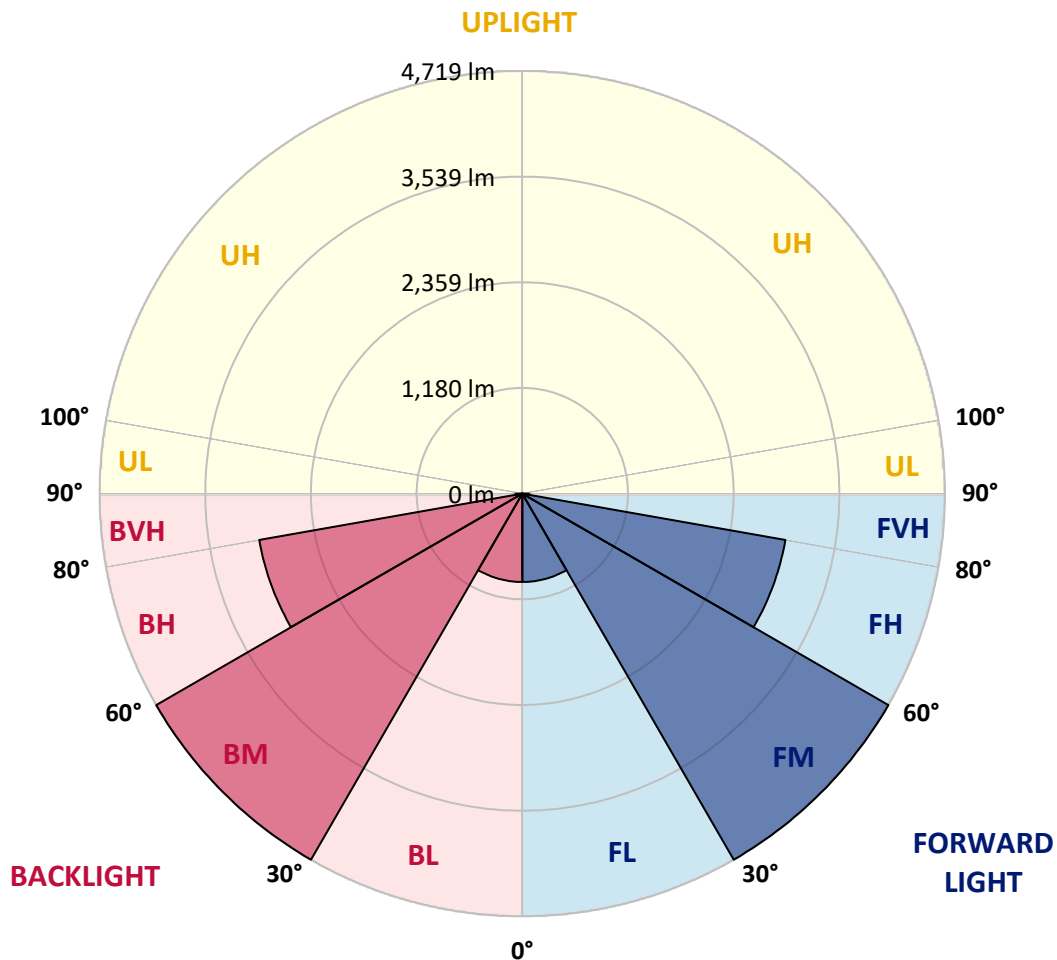
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	986.1	5.6			
FM	(30°-60°)	4718.8	26.9			
FH	(60°-80°)	2982.0	17.0			G2/5000
FVH	(80°-90°)	76.0	0.4			G1/100
BL	(0°-30°)	986.1	5.6	B2/1000		
BM	(30°-60°)	4718.8	26.9	B3/5000		
BH	(60°-80°)	2982.0	17.0	B4/5000		G4/5000
BVH	(80°-90°)	76.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7	1835.7
2.5°	1826.3	1828.2	1830.1	1832.9	1836.6	1842.3	1846.0	1848.8	1856.4	1857.3	1856.4
5°	1819.7	1821.6	1826.3	1834.8	1847.0	1863.9	1877.0	1893.0	1905.2	1913.6	1911.8
7.5°	1818.8	1822.5	1830.1	1847.9	1871.4	1900.5	1930.5	1957.8	1981.2	2000.0	1997.2
10°	1833.8	1838.5	1850.7	1877.0	1913.6	1955.9	1998.1	2038.5	2072.3	2096.7	2105.2
12.5°	1859.2	1862.9	1885.5	1924.9	1977.5	2030.1	2077.9	2127.7	2174.7	2216.0	2216.0
15°	1903.3	1909.9	1938.0	1995.3	2060.1	2121.1	2170.0	2222.6	2273.3	2320.2	2334.3
17.5°	1964.3	1973.7	2016.0	2089.2	2171.8	2228.2	2274.2	2317.4	2361.5	2406.6	2413.2
20°	2047.9	2057.3	2113.6	2201.9	2299.5	2367.2	2398.1	2408.5	2430.1	2473.3	2478.9
22.5°	2161.5	2170.9	2233.8	2333.4	2442.3	2515.5	2528.7	2504.2	2498.6	2532.4	2536.2
25°	2290.2	2298.6	2370.9	2478.0	2590.6	2670.4	2666.7	2606.6	2572.8	2593.4	2599.1
27.5°	2434.8	2447.0	2520.2	2631.0	2753.1	2823.5	2812.2	2724.9	2652.6	2648.8	2650.7
30°	2619.7	2632.9	2702.4	2808.5	2928.7	2993.4	2970.0	2852.6	2740.9	2703.3	2703.3
32.5°	2815.0	2847.9	2918.3	3029.1	3123.0	3170.0	3134.3	2993.4	2845.1	2792.5	2789.7
35°	3069.5	3087.3	3156.8	3264.8	3335.2	3371.9	3303.3	3152.1	2981.2	2919.3	2910.8
37.5°	3318.3	3333.4	3414.1	3517.4	3602.8	3601.0	3508.0	3340.9	3150.3	3080.8	3075.1
40°	3572.8	3588.8	3680.8	3775.6	3861.1	3853.5	3740.9	3554.0	3351.2	3273.3	3288.3
42.5°	3793.5	3811.3	3915.5	4050.7	4127.7	4125.9	3995.3	3785.0	3573.7	3504.3	3517.4
45°	3994.4	4010.4	4131.5	4286.4	4399.1	4413.2	4270.5	4047.9	3831.0	3741.8	3745.6
47.5°	4136.2	4166.2	4293.0	4470.5	4623.5	4673.3	4533.4	4315.5	4065.8	3972.8	3978.4
50°	4244.2	4262.9	4401.0	4602.8	4796.3	4899.6	4786.9	4563.4	4300.5	4201.9	4215.1
52.5°	4257.3	4279.8	4430.1	4662.9	4910.8	5067.6	5012.2	4805.7	4539.9	4438.5	4466.7
55°	4150.3	4163.4	4342.8	4625.4	4955.9	5192.5	5206.6	5031.0	4768.1	4691.1	4709.9
57.5°	3845.1	3878.9	4106.1	4449.8	4893.9	5259.2	5352.2	5235.7	4999.1	4923.0	4953.1
60°	3344.6	3378.4	3606.6	4042.3	4660.1	5228.2	5472.3	5416.9	5208.5	5147.5	5163.4
62.5°	2620.7	2617.9	2900.5	3434.8	4195.3	5076.1	5561.5	5591.6	5415.1	5338.1	5362.5
65°	1698.6	1707.1	1980.3	2555.9	3493.9	4689.2	5581.3	5814.1	5617.9	5501.4	5519.3
66°	1366.2	1391.6	1623.5	2154.0	3136.2	4435.7	5522.1	5879.9	5679.9	5539.0	5547.5
67.5°	1008.5	1003.8	1194.4	1603.8	2504.2	3954.0	5337.1	5921.2	5750.3	5572.8	5576.6
70°	575.6	574.7	642.3	880.8	1472.3	2784.1	4498.6	5723.0	5893.0	5694.9	5684.5
72.5°	420.7	417.8	427.2	486.4	718.3	1405.6	3103.3	5001.9	5819.8	5675.2	5646.0
75°	353.1	351.2	349.3	356.8	402.8	636.6	1647.0	3598.1	5049.8	5326.8	5296.8
77.5°	288.3	288.3	289.2	287.3	289.2	335.2	682.6	1928.7	3075.1	3432.9	3516.5
80°	225.4	224.4	240.4	233.8	218.8	215.0	302.3	620.7	1020.7	1015.0	837.6
82.5°	166.2	154.9	183.1	178.4	161.5	137.1	176.5	264.8	340.8	221.6	164.3
85°	105.2	104.2	129.6	118.3	98.6	64.8	84.5	113.6	140.8	85.4	69.5
87.5°	18.8	17.8	41.3	30.0	30.0	18.8	23.5	31.0	46.0	31.9	23.5
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)