

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: P529577

Luminaire Tested: **GALN-SA4D-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529577  
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-SA4D-730-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 1200mA 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: 14538 lumens  
Efficiency: N/A  
Efficacy: 59.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

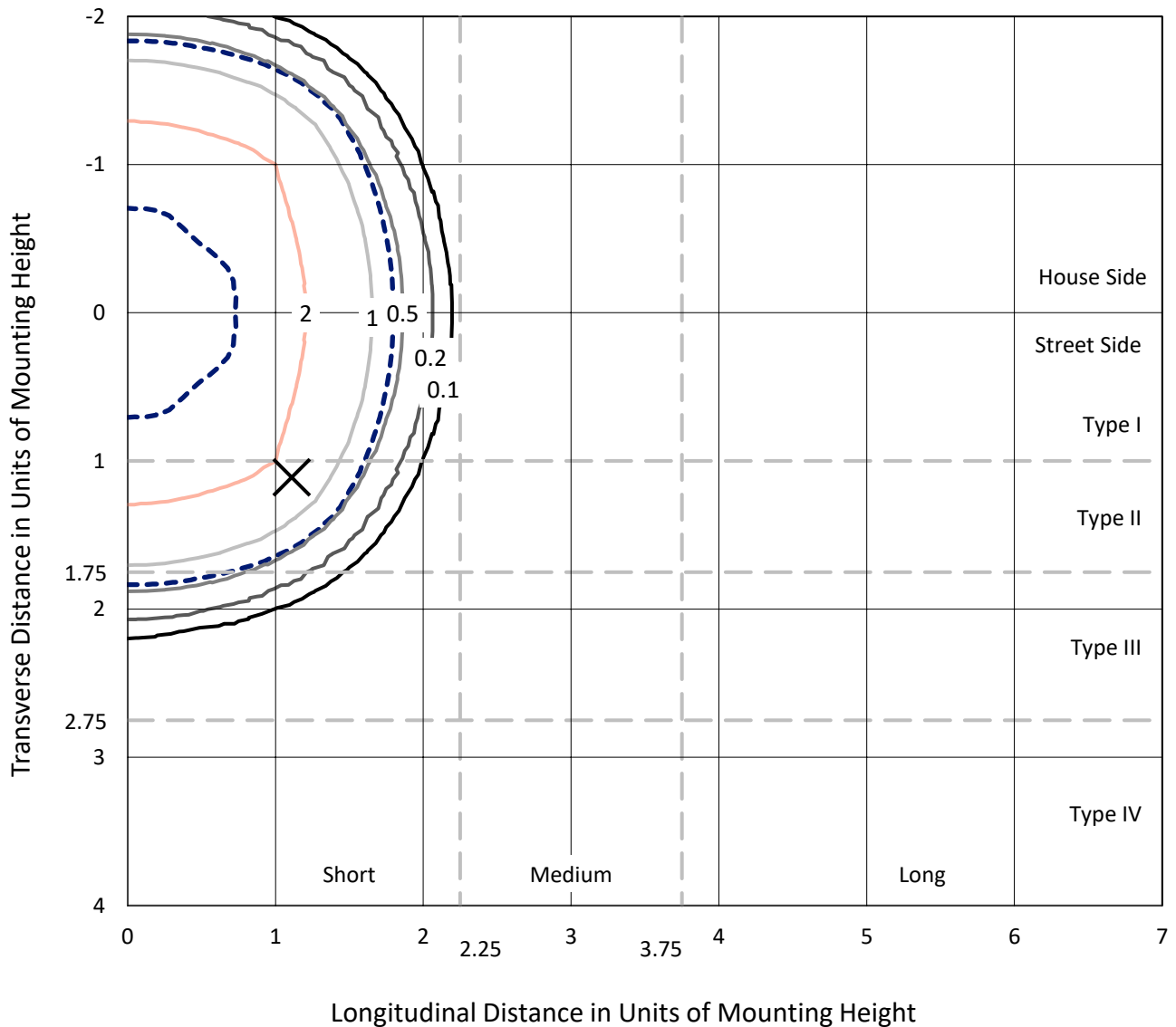
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

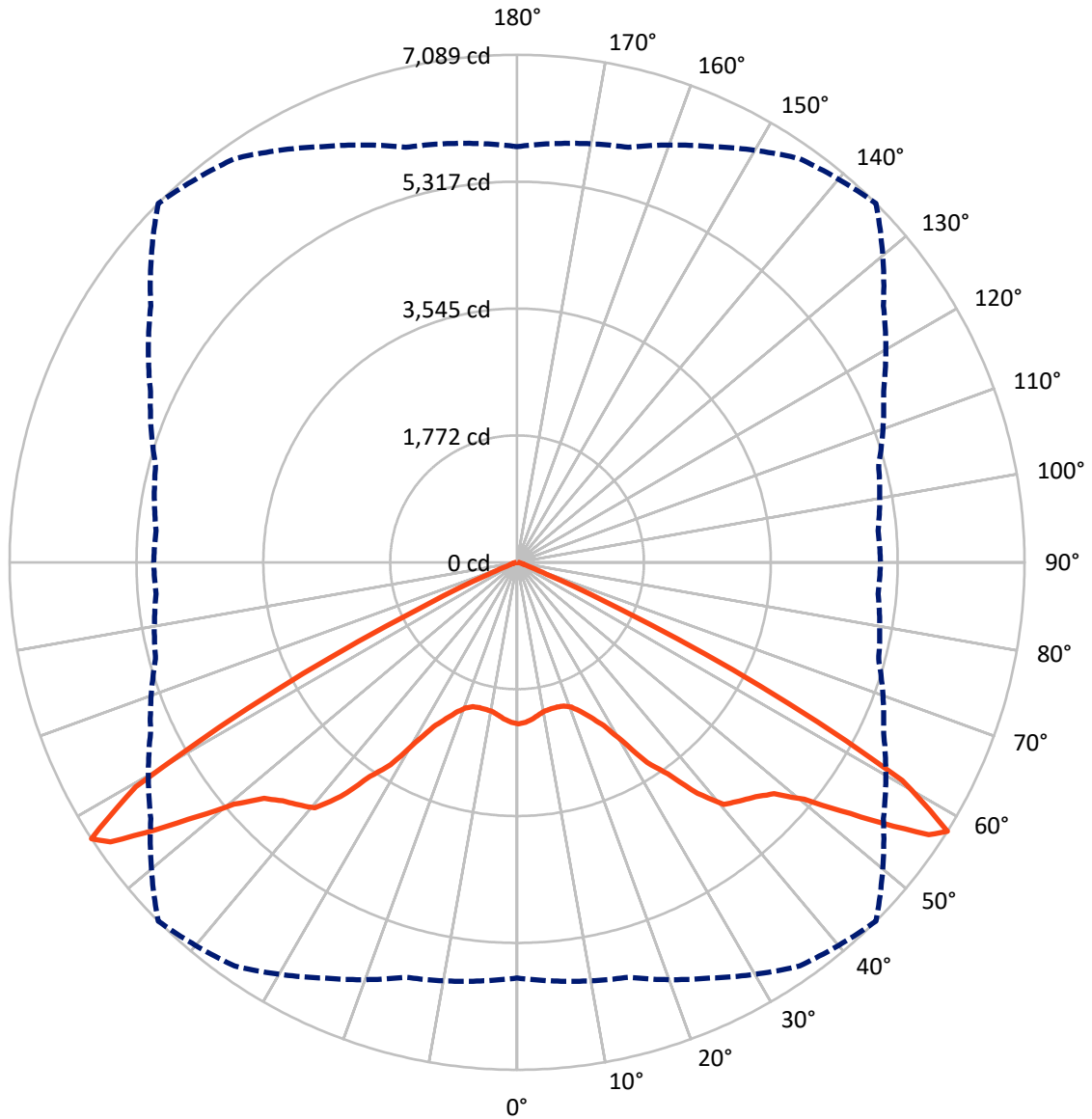
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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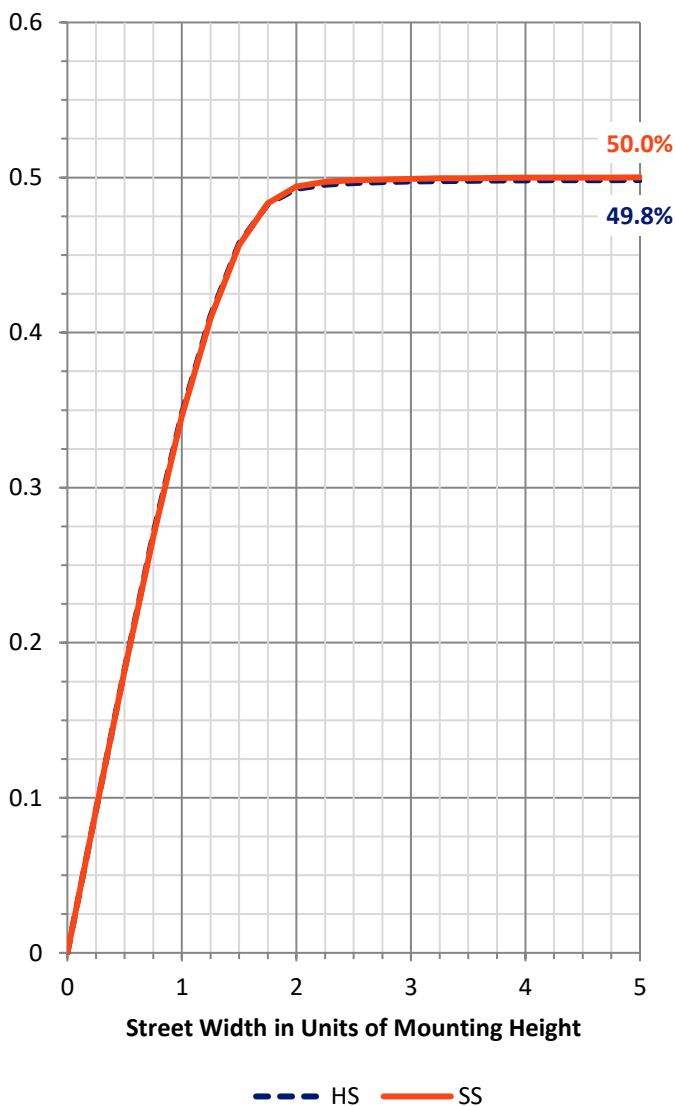
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7269.0	0.0	7269.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7269.0	0.0	7269.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14538.0	0.0	14538.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.2	1.4
10°-20°	599.0	4.1
20°-30°	1105.6	7.6
30°-40°	2174.3	15.0
40°-50°	3541.4	24.4
50°-60°	5050.5	34.7
60°-70°	1748.6	12.0
70°-80°	93.8	0.6
80°-90°	17.6	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°	14538.0	100.0
0°-180°	14538.0	100.0

**Coefficient of Utilization**



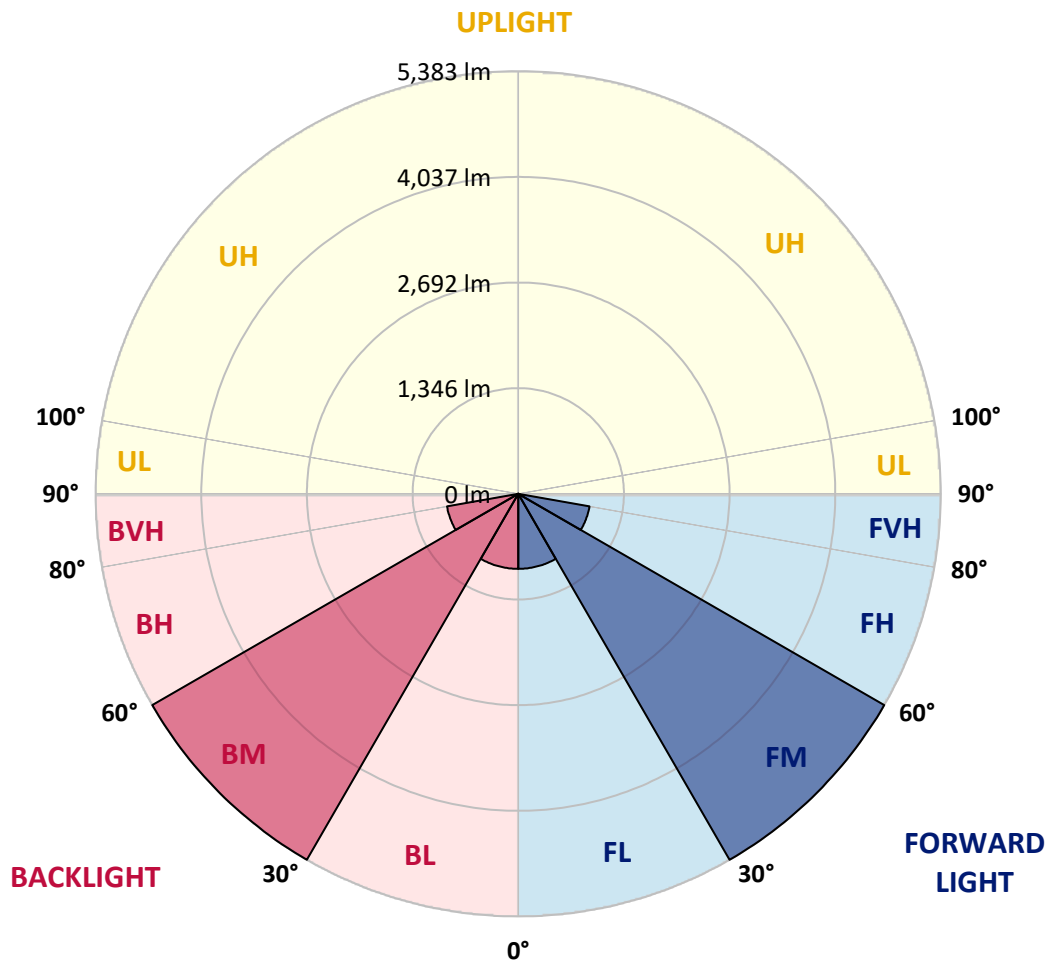
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	955.9	6.6			
FM	(30°-60°)	5383.1	37.0			
FH	(60°-80°)	921.2	6.3			G1/1800
FVH	(80°-90°)	8.8	0.1			G0/10
BL	(0°-30°)	955.9	6.6	B2/1000		
BM	(30°-60°)	5383.1	37.0	B4/8500		
BH	(60°-80°)	921.2	6.3	B2/1000		G1/1800
BVH	(80°-90°)	8.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0
2.5°	2248.9	2261.1	2245.9	2239.8	2236.8	2236.8	2227.7	2227.7	2224.7	2227.7	2215.6
5°	2212.6	2224.7	2224.7	2221.7	2203.5	2200.4	2191.3	2185.3	2188.3	2176.2	2185.3
7.5°	2176.2	2185.3	2173.2	2170.1	2164.1	2151.9	2148.9	2121.6	2124.7	2124.7	2130.7
10°	2170.1	2167.1	2148.9	2133.8	2115.6	2112.5	2103.5	2097.4	2097.4	2094.4	2103.5
12.5°	2170.1	2155.0	2151.9	2118.6	2088.3	2100.4	2076.2	2061.0	2082.2	2088.3	2100.4
15°	2167.1	2182.3	2130.7	2115.6	2094.4	2097.4	2076.2	2061.0	2073.1	2079.2	2088.3
17.5°	2185.3	2176.2	2161.0	2130.7	2121.6	2109.5	2082.2	2070.1	2070.1	2085.3	2088.3
20°	2233.8	2209.5	2179.2	2164.1	2173.2	2158.0	2124.7	2079.2	2091.3	2103.5	2112.5
22.5°	2279.2	2261.1	2239.8	2230.7	2282.3	2258.0	2200.4	2148.9	2130.7	2151.9	2167.1
25°	2367.1	2367.1	2327.7	2339.9	2397.4	2400.5	2333.8	2242.9	2230.7	2239.8	2245.9
27.5°	2546.0	2555.1	2521.7	2533.8	2558.1	2579.3	2521.7	2445.9	2418.7	2415.6	2424.7
30°	2739.9	2758.1	2755.1	2806.6	2876.3	2888.5	2803.6	2679.3	2597.5	2582.3	2594.5
32.5°	2994.5	3003.6	2997.6	3058.2	3246.1	3334.0	3112.7	2937.0	2827.8	2855.1	2827.8
35°	3473.4	3464.3	3397.6	3409.8	3564.3	3628.0	3415.8	3303.7	3252.2	3306.7	3294.6
37.5°	3885.6	3852.3	3797.7	3876.5	4037.2	4094.8	3873.5	3676.5	3582.5	3673.5	3712.9
40°	4234.2	4149.3	4073.5	4152.3	4367.5	4446.3	4122.0	3961.4	3925.0	3991.7	4076.6
42.5°	4528.2	4473.6	4373.6	4379.7	4522.1	4558.5	4297.8	4203.9	4167.5	4273.6	4316.0
45°	4737.3	4685.8	4591.8	4585.8	4694.9	4670.6	4437.3	4373.6	4394.8	4464.5	4485.7
47.5°	4843.4	4870.7	4816.1	4831.3	4888.9	4831.3	4646.4	4646.4	4597.9	4640.3	4619.1
50°	5149.5	5064.6	5134.4	5134.4	5195.0	5201.0	5016.2	4949.5	4819.1	4746.4	4746.4
52.5°	5507.2	5513.2	5540.5	5640.5	5743.6	5831.5	5567.8	5282.9	5064.6	4970.7	4958.6
55°	5801.2	5861.8	5970.9	6158.8	6455.8	6577.1	6122.4	5613.2	5346.5	5201.0	5170.7
56°	5961.8	5904.2	6092.1	6349.8	6737.7	6895.3	6213.4	5679.9	5385.9	5222.3	5219.2
57.5°	5807.2	5870.9	6001.2	6407.3	6883.2	7089.3	6246.7	5649.6	5228.3	5061.6	5076.8
60°	4585.8	4646.4	4822.2	5276.8	6022.4	6183.1	5285.9	4658.5	4282.7	4043.2	4046.3
62.5°	2594.5	2639.9	2776.3	3197.6	3661.3	3815.9	3294.6	2876.3	2615.7	2482.3	2439.9
65°	954.7	936.6	957.8	1173.0	1457.9	1588.2	1370.0	1157.8	1021.4	972.9	954.7
67.5°	357.6	330.4	309.2	330.4	415.2	439.5	403.1	336.4	315.2	324.3	330.4
70°	221.3	209.1	166.7	157.6	154.6	151.5	160.6	169.7	194.0	227.3	233.4
72.5°	154.6	145.5	118.2	112.1	106.1	103.1	118.2	130.3	151.5	175.8	178.8
75°	60.6	63.6	60.6	66.7	69.7	72.7	84.9	94.0	103.1	103.1	100.0
77.5°	12.1	12.1	18.2	24.2	30.3	39.4	57.6	66.7	69.7	66.7	57.6
80°	0.0	0.0	6.1	12.1	24.2	33.3	51.5	57.6	63.6	57.6	45.5
82.5°	0.0	0.0	6.1	15.2	24.2	30.3	48.5	60.6	69.7	63.6	48.5
85°	0.0	0.0	6.1	12.1	18.2	21.2	21.2	15.2	15.2	9.1	6.1
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)