

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: P528641

Luminaire Tested: **GALN-SA3D-730-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528641  
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-SA3D-730-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 10971 lumens  
Efficiency: N/A  
Efficacy: 59.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

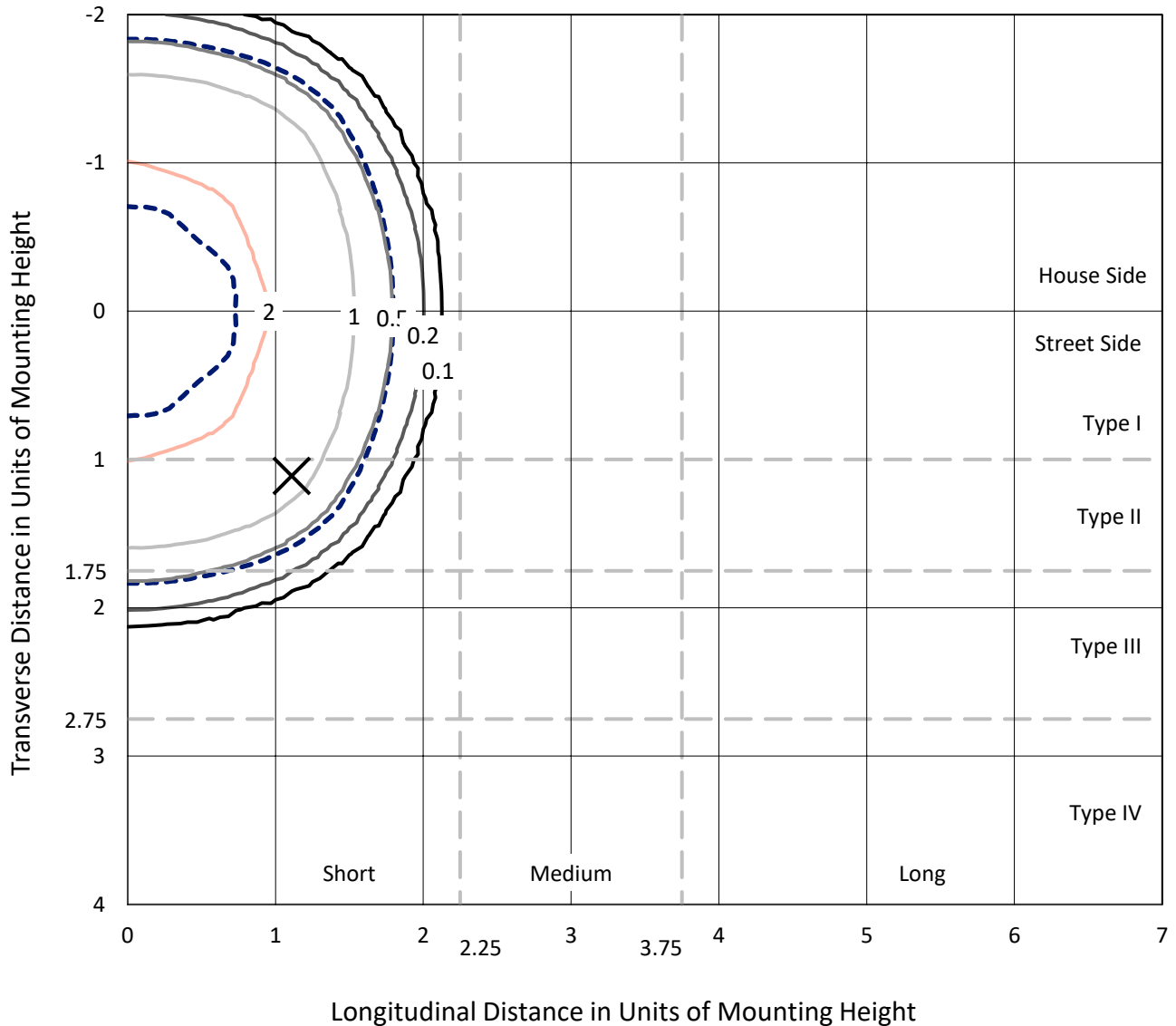
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

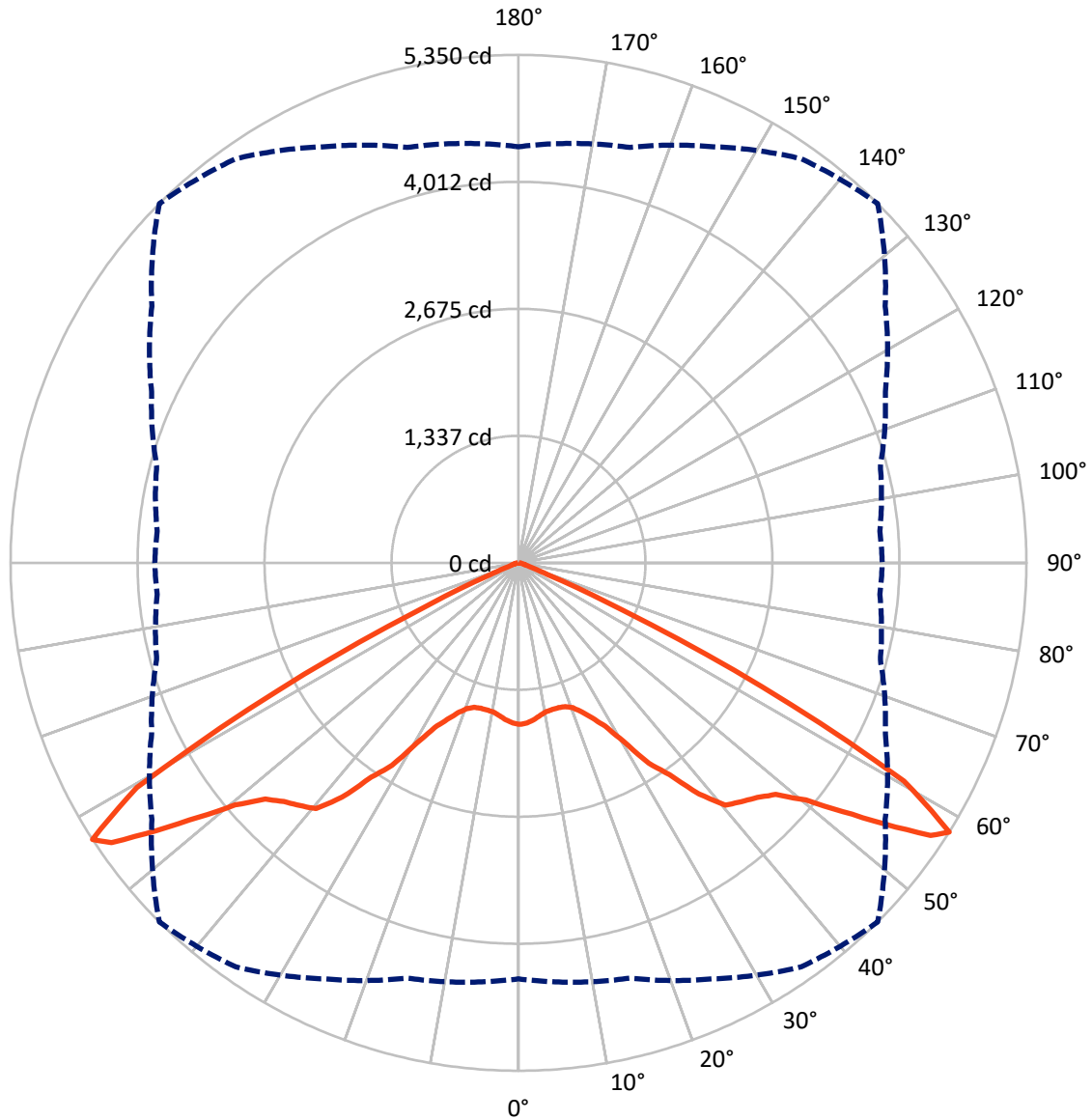
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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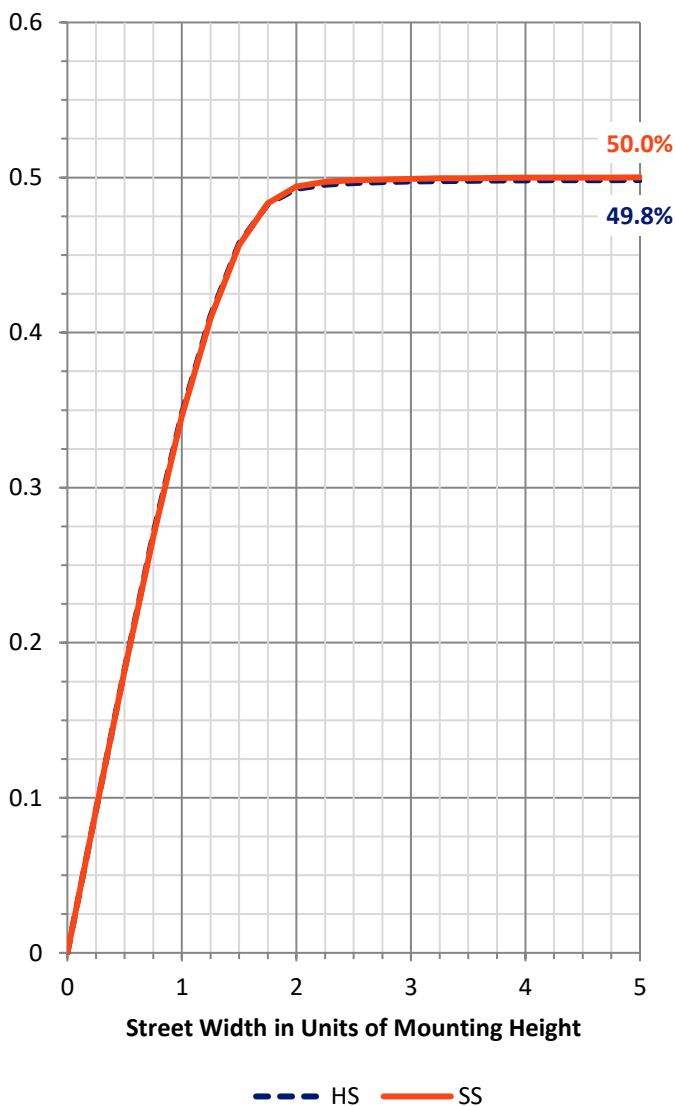
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5485.5	0.0	5485.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5485.5	0.0	5485.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10971.0	0.0	10971.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.4	1.4
10°-20°	452.0	4.1
20°-30°	834.3	7.6
30°-40°	1640.8	15.0
40°-50°	2672.5	24.4
50°-60°	3811.3	34.7
60°-70°	1319.6	12.0
70°-80°	70.8	0.6
80°-90°	13.3	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°	10971.0	100.0
0°-180°	10971.0	100.0

**Coefficient of Utilization**



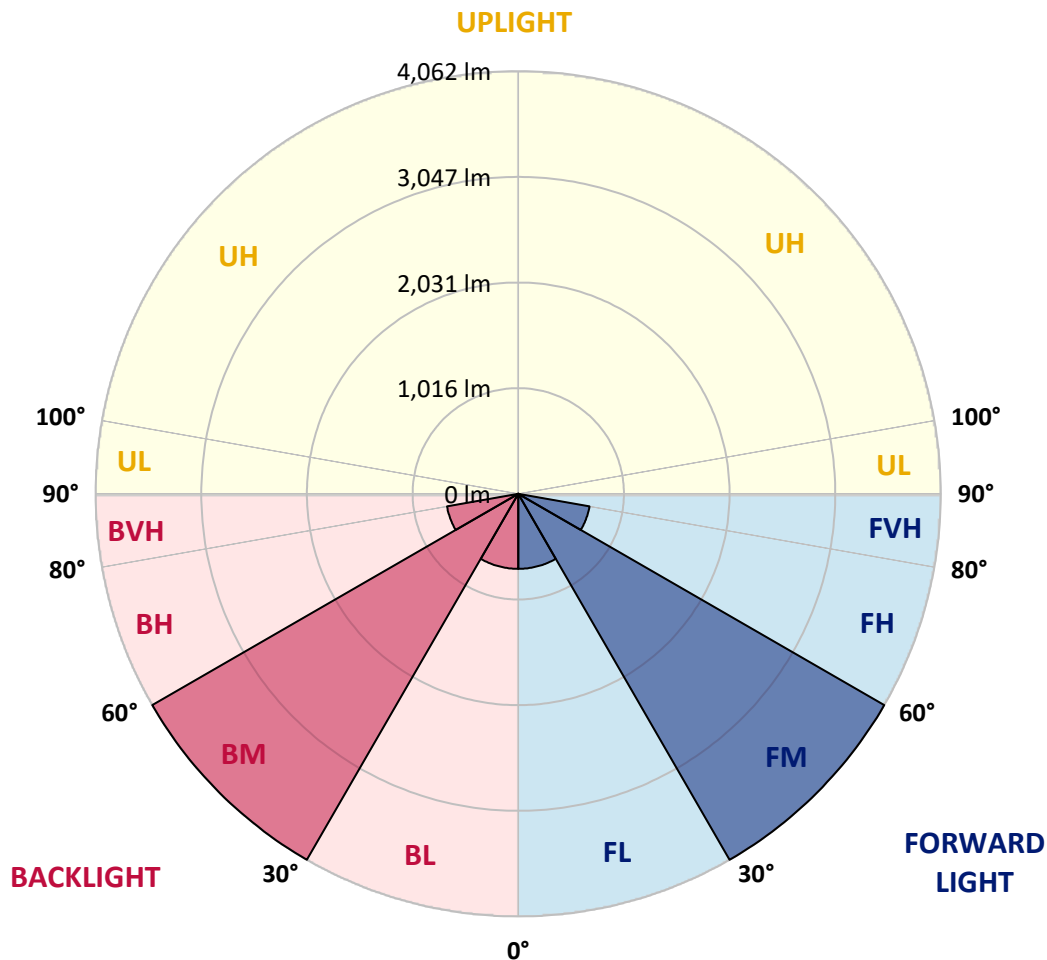
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.4	6.6			
FM (30°-60°)	4062.3	37.0			
FH (60°-80°)	695.2	6.3			G1/1800
FVH (80°-90°)	6.6	0.1			G0/10
BL (0°-30°)	721.4	6.6	B2/1000		
BM (30°-60°)	4062.3	37.0	B3/5000		
BH (60°-80°)	695.2	6.3	B2/1000		G1/1800
BVH (80°-90°)	6.6	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°	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7	1701.7
2.5°	1697.1	1706.3	1694.9	1690.3	1688.0	1688.0	1681.1	1681.1	1678.8	1681.1	1672.0
5°	1669.7	1678.8	1678.8	1676.6	1662.8	1660.5	1653.7	1649.1	1651.4	1642.2	1649.1
7.5°	1642.2	1649.1	1640.0	1637.7	1633.1	1624.0	1621.7	1601.1	1603.4	1603.4	1607.9
10°	1637.7	1635.4	1621.7	1610.2	1596.5	1594.2	1587.4	1582.8	1582.8	1580.5	1587.4
12.5°	1637.7	1626.2	1624.0	1598.8	1575.9	1585.1	1566.8	1555.3	1571.3	1575.9	1585.1
15°	1635.4	1646.8	1607.9	1596.5	1580.5	1582.8	1566.8	1555.3	1564.5	1569.1	1575.9
17.5°	1649.1	1642.2	1630.8	1607.9	1601.1	1591.9	1571.3	1562.2	1562.2	1573.6	1575.9
20°	1685.7	1667.4	1644.5	1633.1	1640.0	1628.5	1603.4	1569.1	1578.2	1587.4	1594.2
22.5°	1720.0	1706.3	1690.3	1683.4	1722.3	1704.0	1660.5	1621.7	1607.9	1624.0	1635.4
25°	1786.3	1786.3	1756.6	1765.8	1809.2	1811.5	1761.2	1692.6	1683.4	1690.3	1694.9
27.5°	1921.3	1928.2	1903.0	1912.1	1930.4	1946.5	1903.0	1845.8	1825.2	1822.9	1829.8
30°	2067.7	2081.4	2079.1	2118.0	2170.6	2179.8	2115.7	2021.9	1960.2	1948.7	1957.9
32.5°	2259.8	2266.7	2262.1	2307.8	2449.6	2516.0	2349.0	2216.3	2134.0	2154.6	2134.0
35°	2621.2	2614.3	2564.0	2573.2	2689.8	2737.8	2577.7	2493.1	2454.2	2495.4	2486.2
37.5°	2932.3	2907.1	2865.9	2925.4	3046.6	3090.1	2923.1	2774.4	2703.5	2772.2	2801.9
40°	3195.3	3131.3	3074.1	3133.5	3295.9	3355.4	3110.7	2989.4	2962.0	3012.3	3076.4
42.5°	3417.2	3376.0	3300.5	3305.1	3412.6	3440.0	3243.3	3172.4	3145.0	3225.0	3257.0
45°	3575.0	3536.1	3465.2	3460.6	3543.0	3524.7	3348.5	3300.5	3316.5	3369.1	3385.1
47.5°	3655.0	3675.6	3634.4	3645.9	3689.3	3645.9	3506.4	3506.4	3469.8	3501.8	3485.8
50°	3886.0	3822.0	3874.6	3874.6	3920.4	3924.9	3785.4	3735.1	3636.7	3581.8	3581.8
52.5°	4155.9	4160.5	4181.1	4256.6	4334.3	4400.7	4201.7	3986.7	3822.0	3751.1	3741.9
55°	4377.8	4423.5	4505.9	4647.7	4871.9	4963.3	4620.3	4236.0	4034.7	3924.9	3902.1
56°	4499.0	4455.6	4597.4	4791.8	5084.6	5203.5	4688.9	4286.3	4064.5	3940.9	3938.7
57.5°	4382.4	4430.4	4528.8	4835.3	5194.4	5349.9	4714.0	4263.4	3945.5	3819.7	3831.2
60°	3460.6	3506.4	3639.0	3982.1	4544.8	4666.0	3989.0	3515.5	3231.9	3051.2	3053.5
62.5°	1957.9	1992.2	2095.1	2413.1	2763.0	2879.7	2486.2	2170.6	1973.9	1873.3	1841.2
65°	720.5	706.8	722.8	885.2	1100.2	1198.5	1033.8	873.7	770.8	734.2	720.5
67.5°	269.9	249.3	233.3	249.3	313.4	331.7	304.2	253.9	237.9	244.7	249.3
70°	167.0	157.8	125.8	118.9	116.6	114.4	121.2	128.1	146.4	171.5	176.1
72.5°	116.6	109.8	89.2	84.6	80.1	77.8	89.2	98.4	114.4	132.7	134.9
75°	45.7	48.0	45.7	50.3	52.6	54.9	64.0	70.9	77.8	77.8	75.5
77.5°	9.1	9.1	13.7	18.3	22.9	29.7	43.5	50.3	52.6	50.3	43.5
80°	0.0	0.0	4.6	9.1	18.3	25.2	38.9	43.5	48.0	43.5	34.3
82.5°	0.0	0.0	4.6	11.4	18.3	22.9	36.6	45.7	52.6	48.0	36.6
85°	0.0	0.0	4.6	9.1	13.7	16.0	16.0	11.4	11.4	6.9	4.6
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)