

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: P451848

Luminaire Tested: **GALN-SA2D-730-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451848  
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-SA2D-730-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14617 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

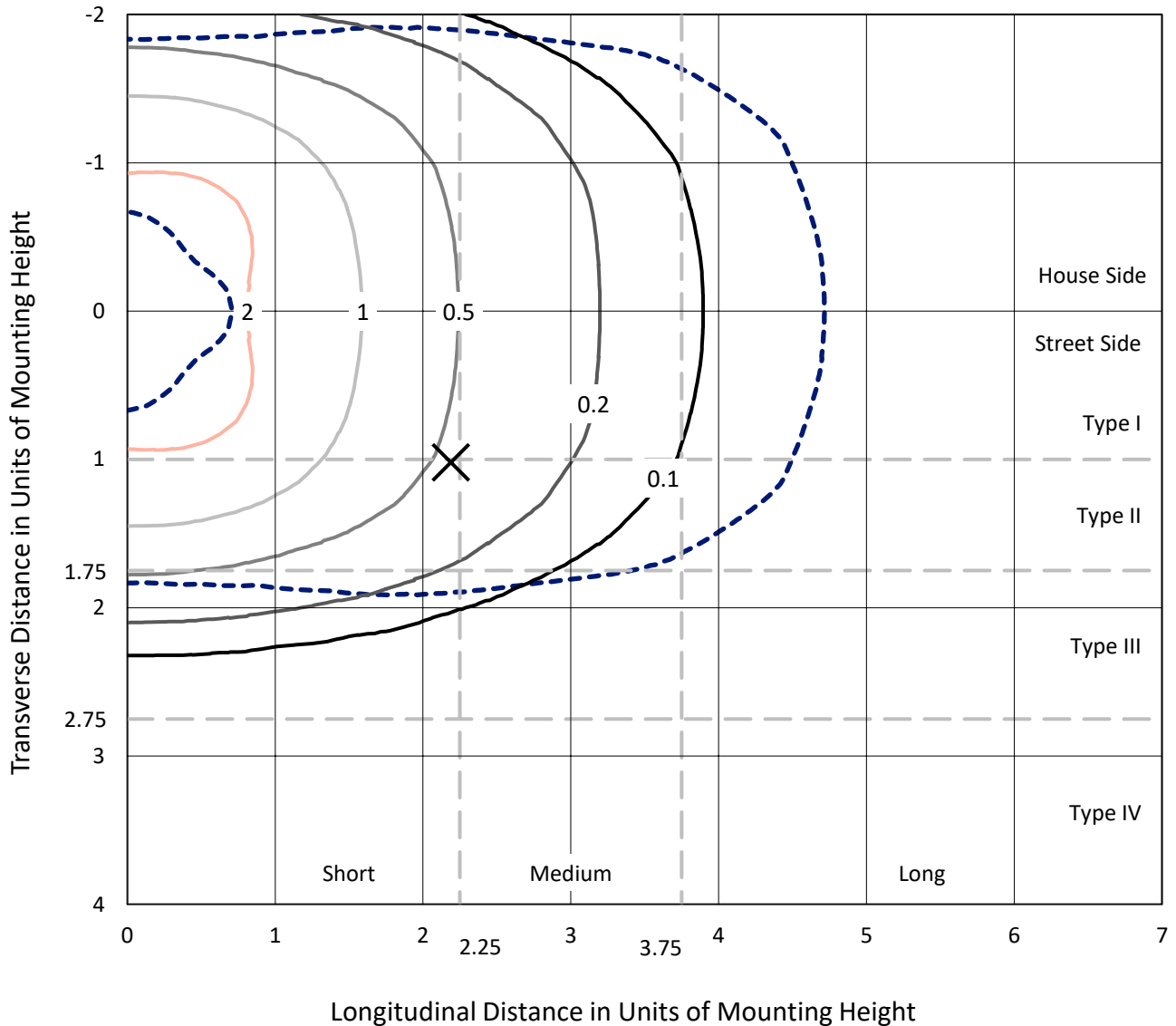
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

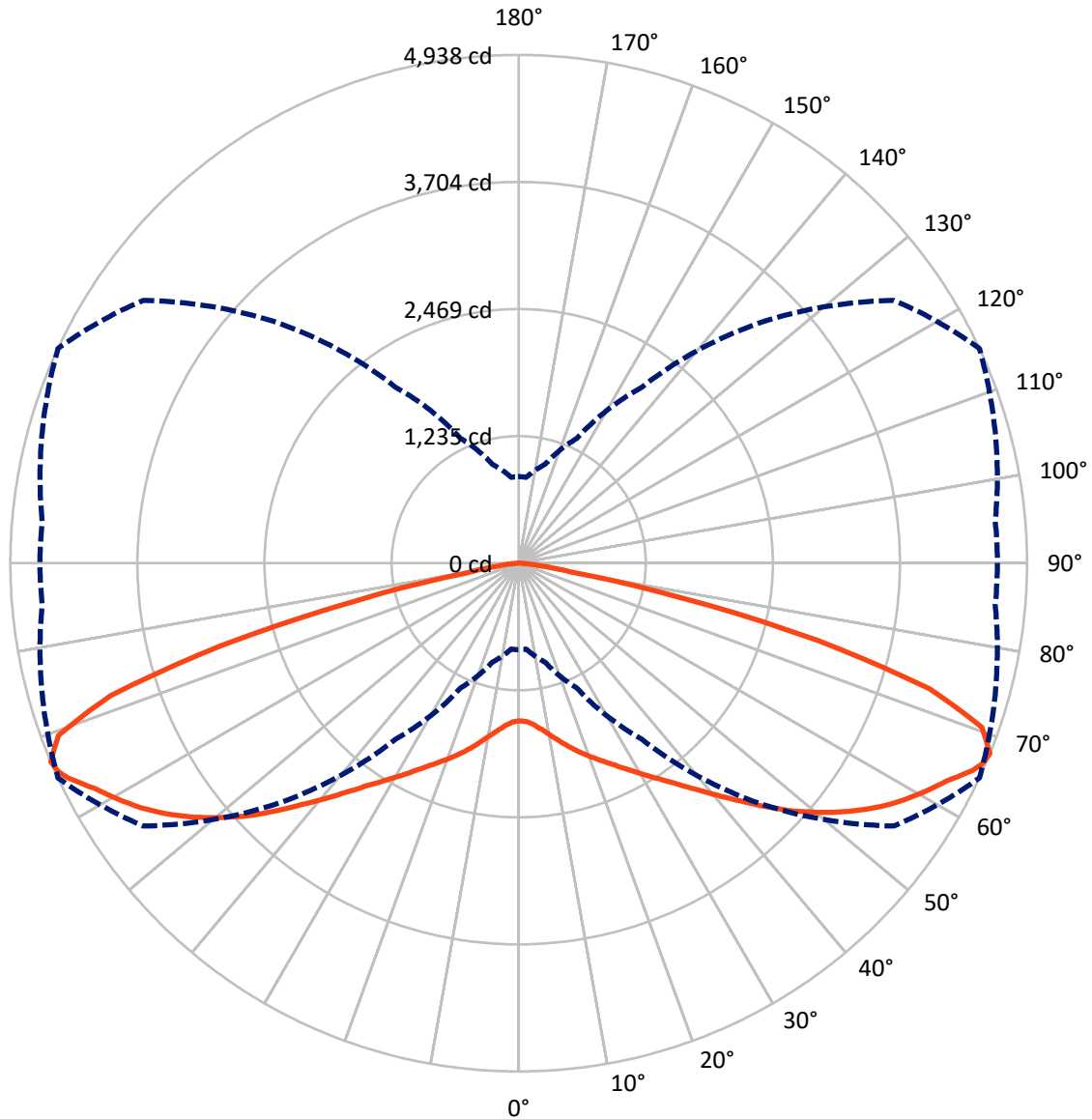
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	7308.5	0.0	7308.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7308.5	0.0	7308.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14617.0	0.0	14617.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.0	1.0
10°-20°	505.4	3.5
20°-30°	988.6	6.8
30°-40°	1681.4	11.5
40°-50°	2661.1	18.2
50°-60°	3528.6	24.1
60°-70°	3328.6	22.8
70°-80°	1645.5	11.3
80°-90°	126.8	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°	14617.0	100.0
0°-180°	14617.0	100.0

**Coefficient of Utilization**



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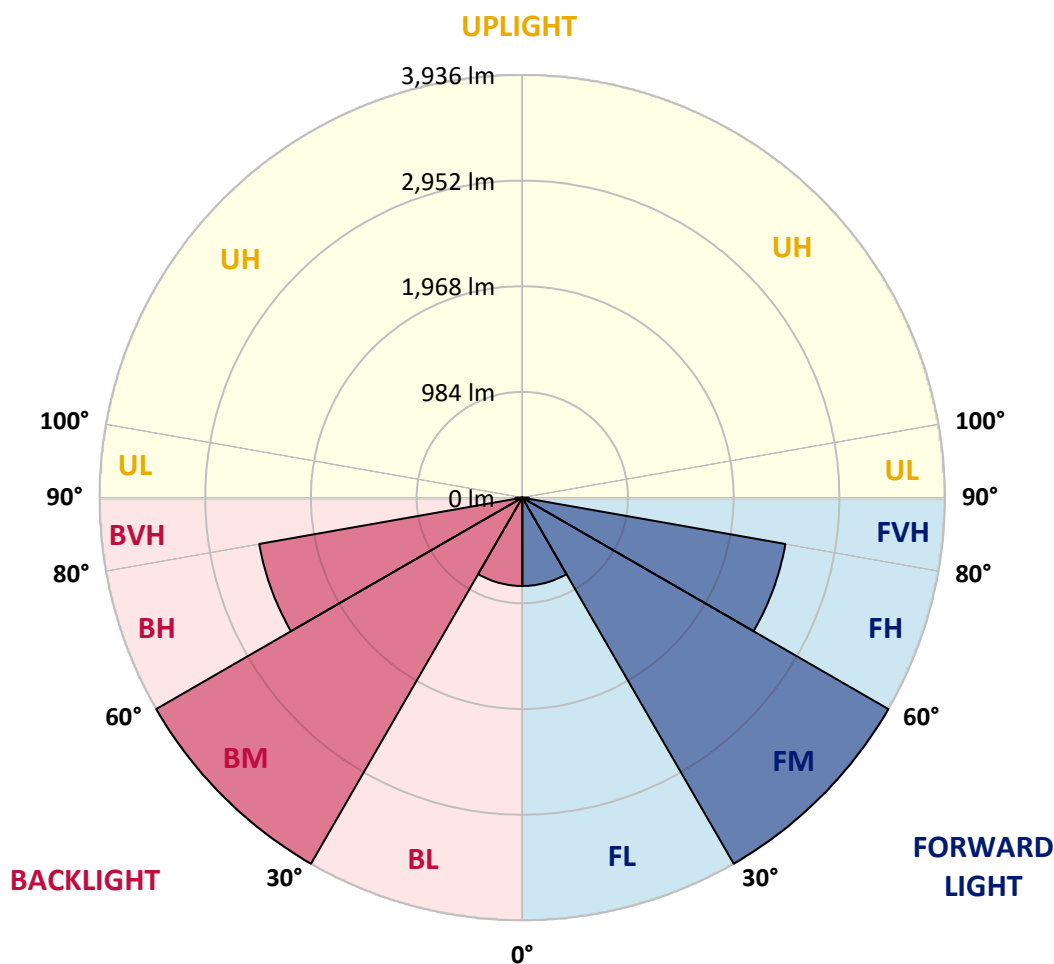
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	822.5	5.6			
FM	(30°-60°)	3935.6	26.9			
FH	(60°-80°)	2487.0	17.0			G2/5000
FVH	(80°-90°)	63.4	0.4			G1/100
BL	(0°-30°)	822.5	5.6	B2/1000		
BM	(30°-60°)	3935.6	26.9	B3/5000		
BH	(60°-80°)	2487.0	17.0	B3/2500		G3/2500
BVH	(80°-90°)	63.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0	1531.0
2.5°	1523.2	1524.7	1526.3	1528.7	1531.8	1536.5	1539.6	1542.0	1548.2	1549.0	1548.2
5°	1517.7	1519.3	1523.2	1530.2	1540.4	1554.5	1565.5	1578.8	1589.0	1596.0	1594.4
7.5°	1516.9	1520.0	1526.3	1541.2	1560.8	1585.0	1610.1	1632.8	1652.4	1668.0	1665.7
10°	1529.4	1533.4	1543.5	1565.5	1596.0	1631.2	1666.5	1700.2	1728.3	1748.7	1755.8
12.5°	1550.6	1553.7	1572.5	1605.4	1649.3	1693.1	1733.0	1774.6	1813.7	1848.2	1848.2
15°	1587.4	1592.9	1616.4	1664.1	1718.2	1769.1	1809.8	1853.6	1895.9	1935.1	1946.8
17.5°	1638.3	1646.1	1681.4	1742.4	1811.4	1858.3	1896.7	1932.7	1969.5	2007.1	2012.6
20°	1708.0	1715.8	1762.8	1836.4	1917.9	1974.2	2000.1	2008.7	2026.7	2062.7	2067.4
22.5°	1802.7	1810.6	1863.0	1946.1	2036.9	2098.0	2108.9	2088.6	2083.9	2112.1	2115.2
25°	1910.0	1917.1	1977.4	2066.7	2160.6	2227.2	2224.1	2173.9	2145.8	2163.0	2167.7
27.5°	2030.6	2040.8	2101.9	2194.3	2296.1	2354.8	2345.4	2272.6	2212.3	2209.2	2210.8
30°	2184.9	2195.9	2253.8	2342.3	2442.6	2496.6	2477.0	2379.1	2285.9	2254.6	2254.6
32.5°	2347.8	2375.2	2433.9	2526.3	2604.7	2643.8	2614.1	2496.6	2372.9	2329.0	2326.7
35°	2560.0	2574.9	2632.9	2722.9	2781.6	2812.2	2755.0	2628.9	2486.4	2434.7	2427.7
37.5°	2767.6	2780.1	2847.4	2933.6	3004.8	3003.3	2925.7	2786.3	2627.4	2569.4	2564.7
40°	2979.8	2993.1	3069.8	3148.9	3220.2	3213.9	3120.0	2964.1	2795.0	2730.0	2742.5
42.5°	3163.8	3178.7	3265.6	3378.4	3442.6	3441.0	3332.2	3156.8	2980.6	2922.6	2933.6
45°	3331.4	3344.7	3445.7	3574.9	3668.9	3680.7	3561.6	3376.0	3195.1	3120.7	3123.9
47.5°	3449.6	3474.7	3580.4	3728.4	3856.1	3897.6	3780.9	3599.2	3390.9	3313.4	3318.1
50°	3539.7	3555.4	3670.5	3838.9	4000.2	4086.3	3992.4	3806.0	3586.7	3504.5	3515.4
52.5°	3550.7	3569.5	3694.8	3889.0	4095.7	4226.5	4180.3	4008.0	3786.4	3701.8	3725.3
55°	3461.4	3472.4	3621.9	3857.7	4133.3	4330.7	4342.4	4196.0	3976.7	3912.5	3928.1
57.5°	3206.9	3235.1	3424.6	3711.2	4081.6	4386.3	4463.8	4366.7	4169.3	4105.9	4131.0
60°	2789.5	2817.7	3008.0	3371.3	3886.6	4360.4	4564.0	4517.8	4344.0	4293.1	4306.4
62.5°	2185.7	2183.3	2419.1	2864.7	3499.0	4233.6	4638.4	4663.5	4516.3	4452.0	4472.4
65°	1416.7	1423.7	1651.6	2131.7	2914.0	3910.9	4654.9	4849.1	4685.4	4588.3	4603.2
66°	1139.4	1160.6	1354.0	1796.5	2615.6	3699.5	4605.5	4903.9	4737.1	4619.6	4626.7
67.5°	841.1	837.2	996.1	1337.6	2088.6	3297.7	4451.3	4938.4	4795.8	4647.8	4651.0
70°	480.1	479.3	535.7	734.6	1227.9	2322.0	3751.9	4773.1	4914.9	4749.6	4741.0
72.5°	350.8	348.5	356.3	405.7	599.1	1172.3	2588.2	4171.7	4853.8	4733.2	4708.9
75°	294.5	292.9	291.3	297.6	336.0	531.0	1373.6	3000.9	4211.6	4442.6	4417.6
77.5°	240.4	240.4	241.2	239.6	241.2	279.6	569.3	1608.5	2564.7	2863.1	2932.8
80°	187.9	187.2	200.5	195.0	182.5	179.3	252.2	517.6	851.3	846.6	698.5
82.5°	138.6	129.2	152.7	148.8	134.7	114.3	147.2	220.8	284.3	184.8	137.0
85°	87.7	86.9	108.1	98.7	82.2	54.0	70.5	94.8	117.5	71.3	58.0
87.5°	15.7	14.9	34.5	25.1	25.1	15.7	19.6	25.8	38.4	26.6	19.6
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)