

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: P453005

Luminaire Tested: **GALN-SA4A-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4A-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17243 lumens  
Efficiency: N/A  
Efficacy: 142.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

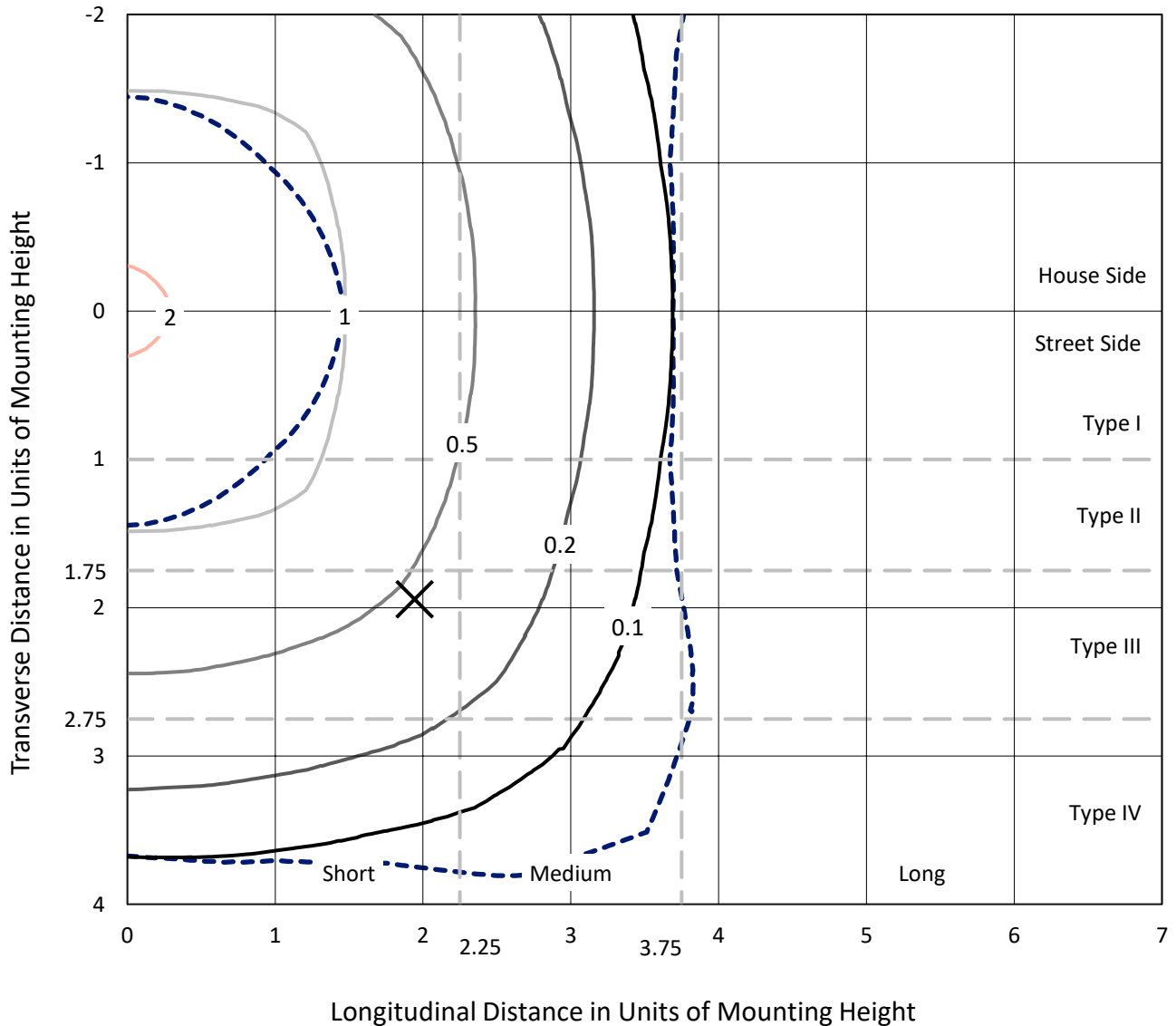
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

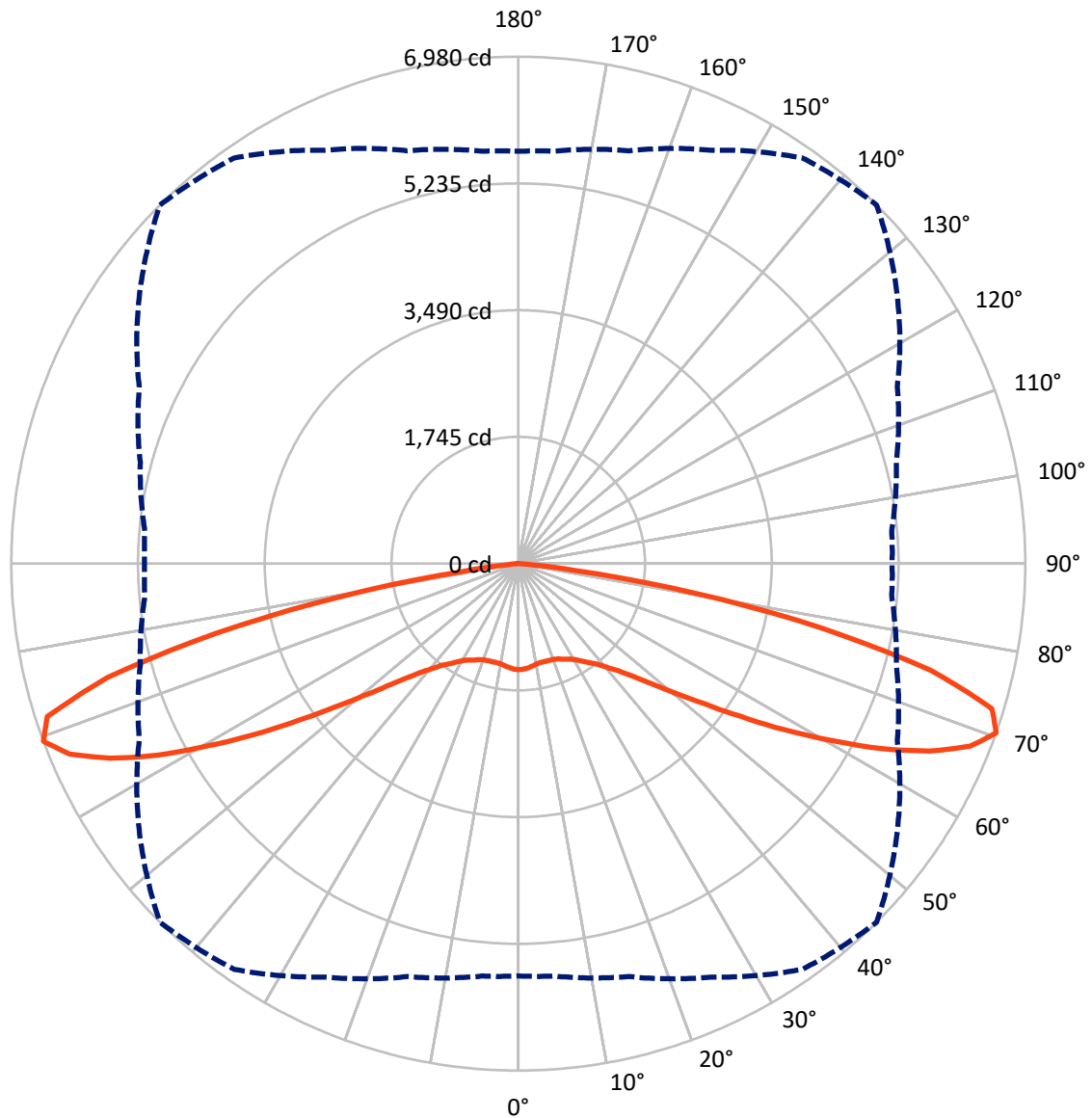
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8621.5	0.0	8621.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8621.5	0.0	8621.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17243.0	0.0	17243.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.5	0.8
10°-20°	399.7	2.3
20°-30°	681.0	3.9
30°-40°	1055.5	6.1
40°-50°	1776.5	10.3
50°-60°	3232.3	18.7
60°-70°	5472.1	31.7
70°-80°	4235.7	24.6
80°-90°	253.8	1.5
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°	17243.0	100.0
0°-180°	17243.0	100.0

**Coefficient of Utilization**



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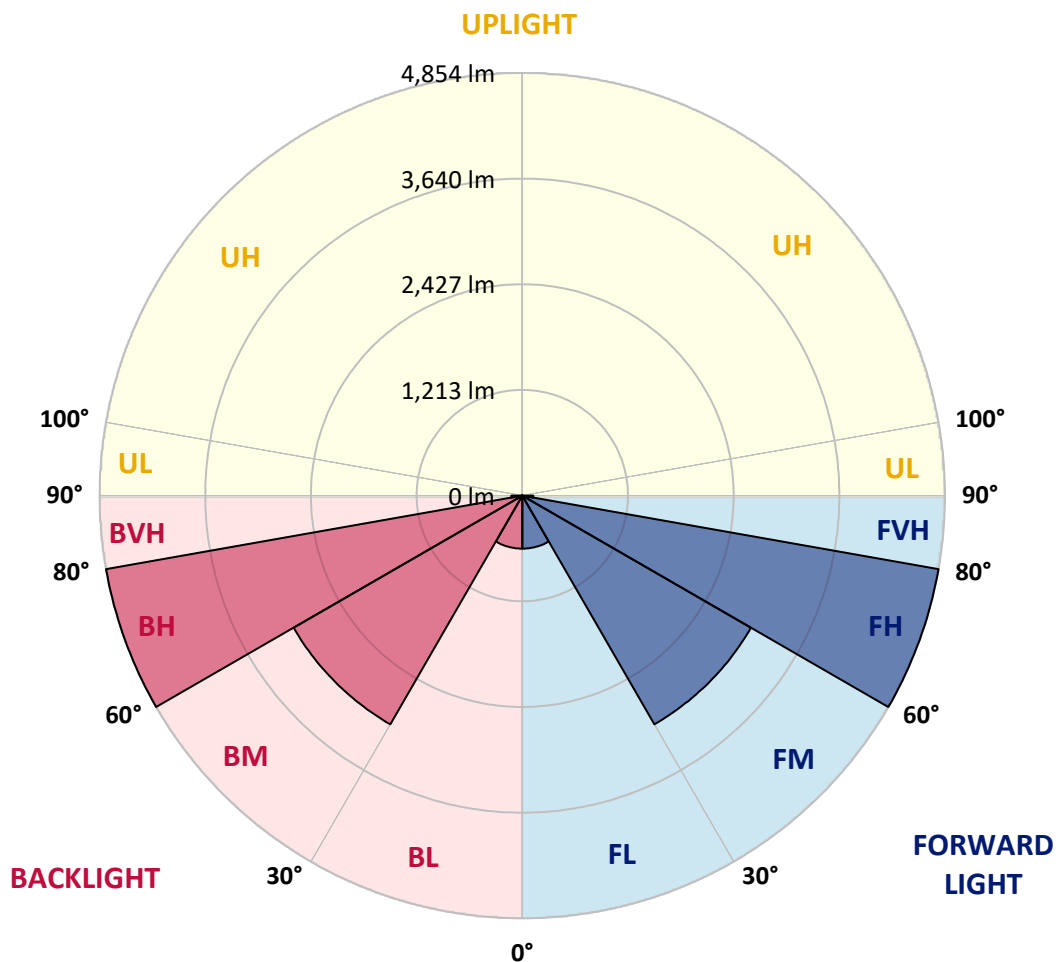
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.6	3.5			
FM (30°-60°)	3032.1	17.6			
FH (60°-80°)	4853.9	28.1			G2/5000
FVH (80°-90°)	126.9	0.7			G2/225
BL (0°-30°)	608.6	3.5	B2/1000		
BM (30°-60°)	3032.1	17.6	B3/5000		
BH (60°-80°)	4853.9	28.1	B4/5000		G2/5000
BVH (80°-90°)	126.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8	1459.8
2.5°	1456.2	1457.1	1457.1	1455.3	1454.4	1454.4	1453.5	1453.5	1456.2	1457.1	1458.0
5°	1443.4	1443.4	1443.4	1442.5	1440.7	1440.7	1438.9	1438.9	1439.8	1442.5	1440.7
7.5°	1426.1	1428.0	1428.0	1424.3	1421.6	1421.6	1420.7	1421.6	1422.5	1425.2	1424.3
10°	1420.7	1421.6	1417.0	1410.7	1406.1	1403.4	1404.3	1406.1	1410.7	1412.5	1413.4
12.5°	1424.3	1424.3	1416.1	1407.0	1398.8	1395.2	1394.3	1400.6	1408.8	1414.3	1416.1
15°	1428.9	1427.0	1417.0	1405.2	1397.0	1396.1	1395.2	1399.7	1411.6	1422.5	1423.4
17.5°	1431.6	1430.7	1417.9	1403.4	1398.8	1398.8	1397.9	1401.5	1414.3	1428.0	1428.9
20°	1440.7	1438.0	1423.4	1407.9	1404.3	1406.1	1403.4	1407.9	1421.6	1438.0	1441.6
22.5°	1458.9	1456.2	1441.6	1426.1	1424.3	1424.3	1423.4	1428.0	1442.5	1459.8	1462.6
25°	1480.8	1478.0	1464.4	1453.5	1455.3	1458.9	1457.1	1458.0	1469.8	1484.4	1489.0
27.5°	1509.9	1505.4	1493.5	1484.4	1489.9	1489.9	1489.9	1489.0	1496.3	1509.9	1514.5
30°	1545.4	1543.6	1530.9	1530.0	1534.5	1530.0	1530.0	1530.9	1531.8	1544.5	1549.1
32.5°	1591.9	1588.2	1581.9	1580.0	1592.8	1596.4	1583.7	1571.8	1578.2	1591.0	1593.7
35°	1668.4	1662.9	1653.8	1643.8	1653.8	1671.1	1643.8	1634.7	1651.1	1668.4	1670.2
37.5°	1772.2	1769.5	1754.9	1736.7	1735.8	1754.0	1725.8	1724.8	1755.8	1776.8	1779.5
40°	1902.4	1905.2	1886.9	1869.6	1860.5	1875.1	1853.2	1861.4	1891.5	1915.2	1913.4
42.5°	2085.5	2075.5	2047.2	2030.8	2020.8	2015.4	2009.9	2022.6	2056.3	2081.8	2101.9
45°	2299.5	2295.8	2260.3	2240.3	2218.4	2210.2	2208.4	2231.2	2272.2	2303.1	2305.9
47.5°	2541.7	2533.5	2510.8	2489.8	2481.6	2471.6	2462.5	2479.8	2520.8	2542.6	2549.0
50°	2791.3	2793.1	2793.1	2789.4	2797.6	2799.5	2774.9	2781.2	2804.0	2802.2	2800.4
52.5°	3076.3	3086.3	3133.7	3138.2	3177.4	3203.8	3159.2	3132.8	3124.6	3075.4	3079.0
55°	3411.4	3420.5	3491.6	3562.6	3668.2	3712.9	3619.1	3537.1	3478.8	3404.1	3407.8
57.5°	3829.4	3834.0	3901.4	4038.0	4205.6	4310.3	4145.4	3983.3	3865.0	3793.9	3765.7
60°	4279.3	4283.9	4382.2	4548.9	4809.3	4936.8	4732.8	4467.8	4318.5	4210.1	4217.4
62.5°	4819.4	4837.6	4925.9	5155.4	5471.4	5614.4	5343.9	4989.7	4787.5	4652.7	4658.2
65°	5397.6	5428.6	5525.1	5777.4	6068.8	6222.7	5891.2	5482.3	5231.0	5066.2	5083.5
67.5°	5772.8	5800.2	5939.5	6218.2	6581.5	6709.0	6281.0	5804.7	5490.5	5293.8	5257.4
70°	5677.2	5700.0	5885.8	6281.0	6819.2	6980.4	6373.9	5757.4	5387.6	5160.9	5146.3
72.5°	5011.5	4964.2	5235.5	5802.9	6547.8	6818.3	6081.6	5258.3	4792.9	4559.8	4532.5
75°	3321.3	3424.2	3824.9	4493.3	5539.7	5874.8	5190.9	4221.9	3636.4	3442.4	3412.3
77.5°	1110.1	1189.4	1545.4	2547.2	3776.6	4280.2	3782.1	2761.2	1953.4	1573.7	1581.0
80°	294.2	290.5	376.1	700.3	1632.0	2478.9	1899.7	935.3	511.8	370.6	351.5
82.5°	105.6	118.4	152.1	194.0	432.6	770.4	543.7	262.3	192.2	142.1	137.5
85°	46.4	45.5	65.6	77.4	108.4	143.9	127.5	111.1	97.4	64.7	60.1
87.5°	10.0	10.0	15.5	11.8	19.1	19.1	23.7	28.2	29.1	19.1	15.5
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)