

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: P533319

Luminaire Tested: **GALN-SA8D-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-730-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39082 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

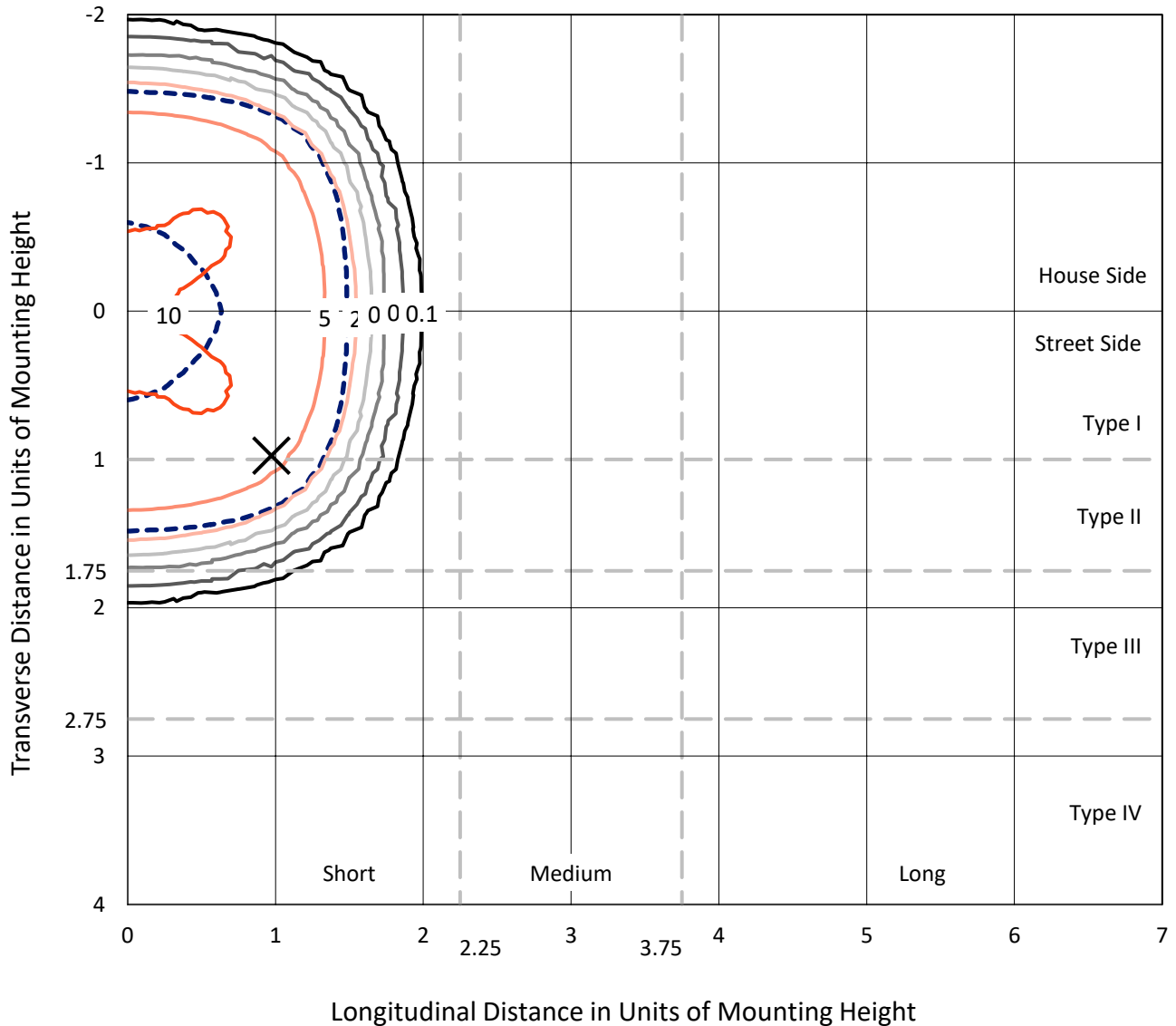
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

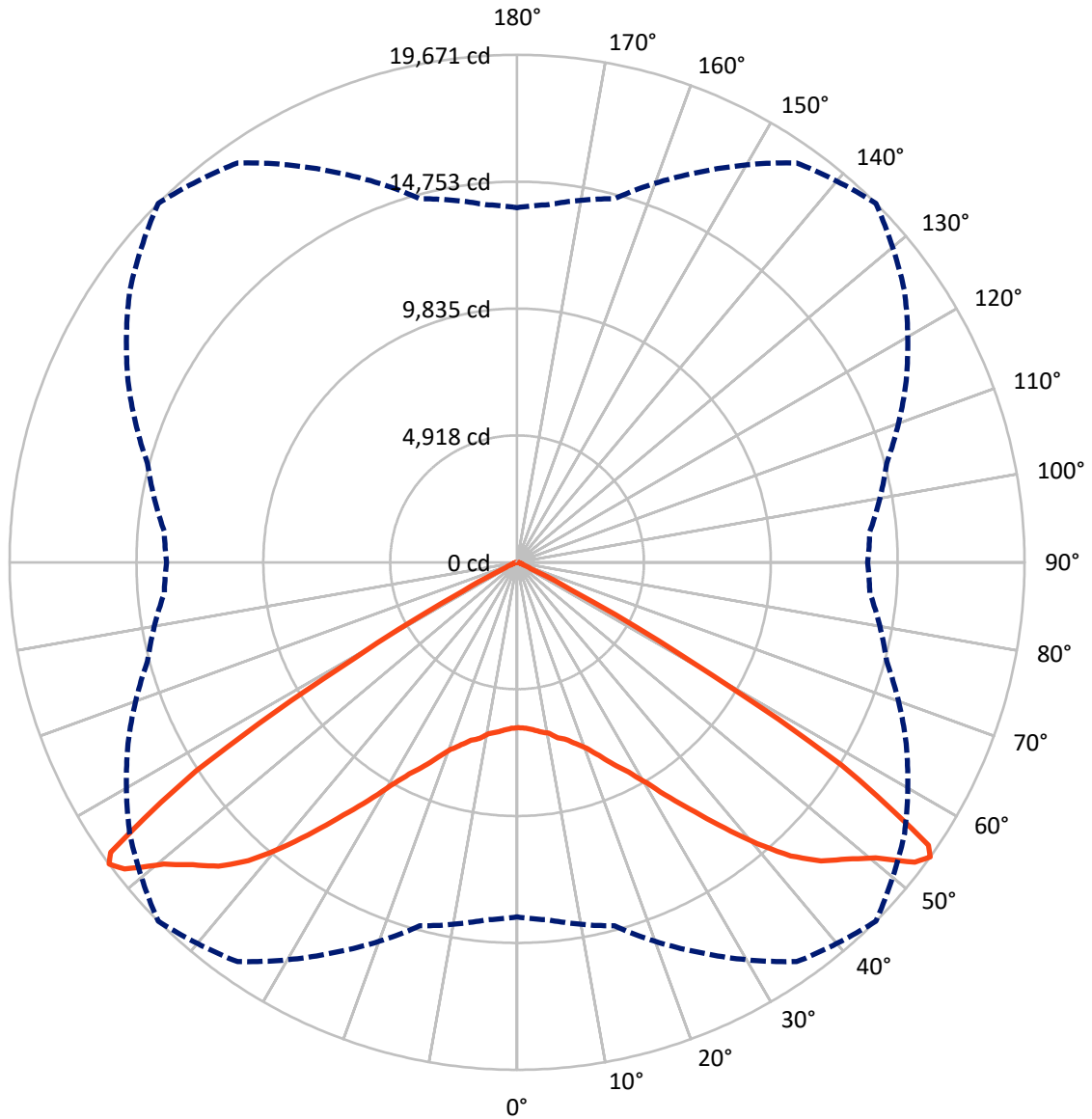
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19541.0	0.0	19541.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19541.0	0.0	19541.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39082.0	0.0	39082.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	627.2	1.6
10°-20°	2031.2	5.2
20°-30°	3980.9	10.2
30°-40°	7158.6	18.3
40°-50°	12254.1	31.4
50°-60°	11857.0	30.3
60°-70°	1015.0	2.6
70°-80°	120.3	0.3
80°-90°	37.7	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°	39082.0	100.0
0°-180°	39082.0	100.0

**Coefficient of Utilization**

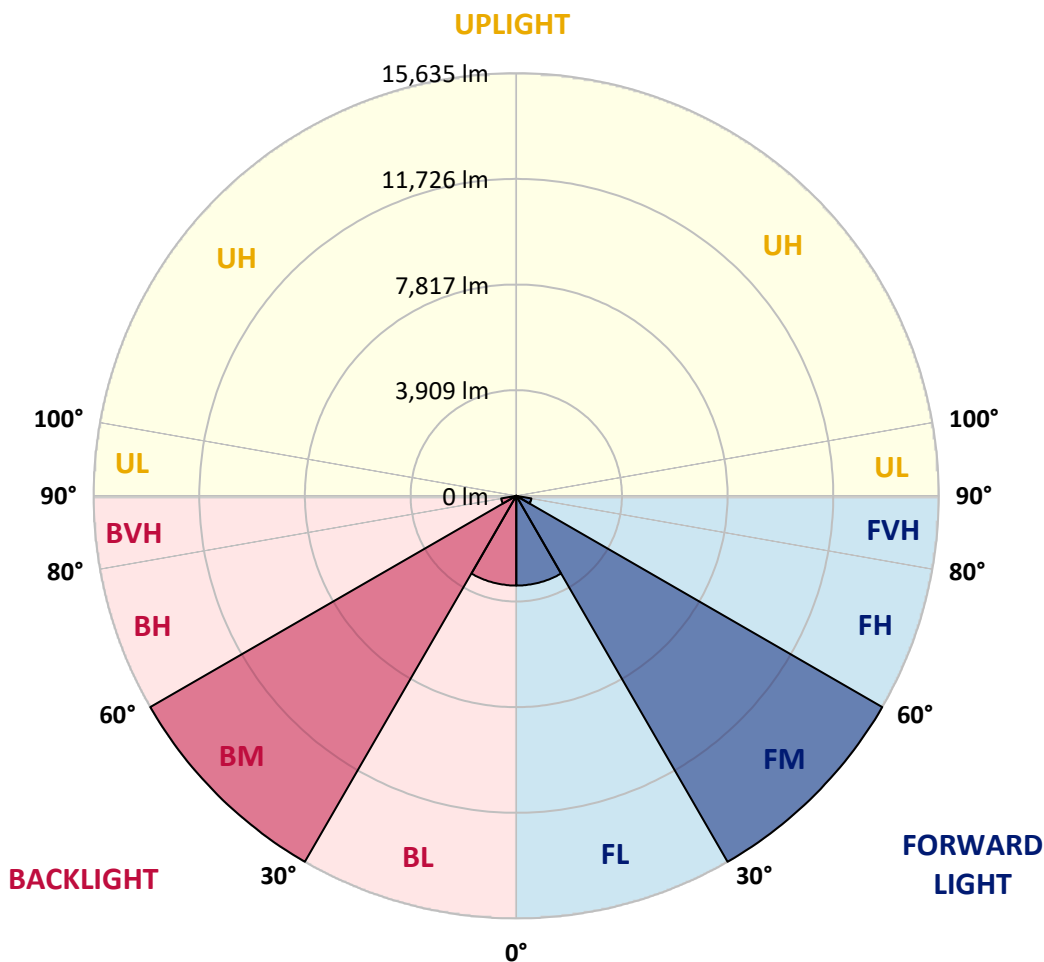


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3319.7	8.5			
FM (30°-60°)	15634.8	40.0			
FH (60°-80°)	567.7	1.5			G0/660
FVH (80°-90°)	18.9	0.0			G1/100
BL (0°-30°)	3319.7	8.5	B4/5000		
BM (30°-60°)	15634.8	40.0	B5		
BH (60°-80°)	567.7	1.5	B2/1000		G0/660
BVH (80°-90°)	18.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6408.2	6408.2	6408.2	6408.2	6408.2	6408.2	6408.2	6408.2	6408.2	6408.2	6408.2
2.5°	6439.2	6476.3	6451.6	6470.1	6470.1	6439.2	6457.8	6383.5	6433.0	6395.8	6402.0
5°	6538.3	6532.1	6532.1	6538.3	6513.5	6525.9	6501.1	6476.3	6457.8	6433.0	6507.3
7.5°	6662.1	6662.1	6618.7	6631.1	6618.7	6637.3	6587.8	6538.3	6519.7	6501.1	6488.7
10°	6779.7	6767.3	6748.8	6804.5	6761.1	6736.4	6711.6	6680.7	6612.6	6587.8	6563.0
12.5°	6953.1	6946.9	6922.1	6977.9	6953.1	6977.9	6885.0	6804.5	6792.1	6711.6	6755.0
15°	7157.4	7213.1	7169.8	7169.8	7157.4	7126.4	7089.3	7052.1	6940.7	6909.7	6915.9
17.5°	7423.6	7405.1	7411.3	7411.3	7473.2	7392.7	7318.4	7225.5	7169.8	7151.2	7089.3
20°	7677.5	7702.3	7696.1	7739.4	7776.6	7689.9	7609.4	7597.0	7442.2	7467.0	7380.3
22.5°	8123.3	8104.7	8135.7	8166.6	8141.9	8129.5	8055.2	7962.3	7826.1	7764.2	7751.8
25°	8593.8	8562.9	8507.2	8581.5	8618.6	8674.3	8531.9	8482.4	8271.9	8179.0	8185.2
27.5°	8996.3	9039.6	9101.5	9132.5	9225.4	9206.8	9107.7	8946.8	8785.8	8680.5	8612.4
30°	9547.3	9572.1	9677.4	9720.7	9881.7	9925.0	9770.2	9584.5	9299.7	9163.5	9083.0
32.5°	10055.0	10228.4	10222.2	10438.9	10699.0	10878.5	10599.9	10315.1	10030.3	9869.3	9726.9
35°	10878.5	10847.6	11027.1	11256.2	11677.2	11881.5	11578.2	11250.0	10816.6	10556.6	10445.1
37.5°	11646.3	11658.6	11900.1	12265.4	12748.4	13064.1	12797.9	12259.2	11813.4	11479.1	11324.3
40°	12760.7	12785.5	13033.2	13448.0	13992.9	14333.4	14023.8	13479.0	12884.6	12624.5	12624.5
42.5°	14067.1	14172.4	14333.4	14692.5	15181.6	15559.3	15280.7	14853.5	14252.9	13918.6	13968.1
45°	15410.7	15460.2	15565.5	16098.0	16327.1	16512.8	16252.8	16054.6	15652.2	15243.5	15175.4
47.5°	16667.6	16686.2	16995.7	17162.9	17342.5	17187.7	17354.9	17094.8	16642.8	16246.6	16166.1
50°	17224.8	17193.9	17633.5	18141.2	18277.4	18005.0	17862.6	17689.2	17001.9	16525.2	16314.7
52.5°	15602.6	15782.2	16599.5	18011.2	19076.1	19305.2	18475.5	17676.8	16395.2	15466.4	15324.0
54°	13745.2	13912.4	14587.2	16680.0	18896.5	19670.5	18333.1	16636.6	14828.7	13726.6	13584.2
55°	11906.3	11720.6	12946.5	15082.6	18054.5	19348.5	17769.7	15293.1	13225.1	12215.9	12017.8
57.5°	6445.4	6476.3	7510.3	9528.8	12686.4	14834.9	13101.3	10346.0	7813.7	6680.7	6581.6
60°	2043.2	2092.7	2544.7	3851.1	6061.5	7237.9	6203.9	4154.5	2872.9	2303.2	2210.4
62.5°	637.7	662.5	724.4	1077.3	1659.3	2371.4	1857.5	1114.5	829.7	761.6	773.9
65°	390.1	390.1	396.3	421.0	495.3	575.8	557.2	489.1	470.6	458.2	452.0
67.5°	253.9	247.7	260.0	278.6	291.0	297.2	315.8	334.3	328.2	315.8	315.8
70°	154.8	148.6	161.0	185.7	191.9	204.3	222.9	247.7	241.5	229.1	235.3
72.5°	86.7	86.7	92.9	111.4	130.0	142.4	161.0	179.6	185.7	179.6	179.6
75°	31.0	37.1	49.5	68.1	80.5	99.1	117.6	136.2	154.8	142.4	136.2
77.5°	12.4	12.4	24.8	43.3	61.9	80.5	111.4	130.0	142.4	130.0	117.6
80°	6.2	6.2	18.6	37.1	55.7	74.3	92.9	111.4	117.6	105.3	92.9
82.5°	6.2	6.2	18.6	37.1	55.7	68.1	99.1	111.4	123.8	111.4	92.9
85°	0.0	6.2	18.6	37.1	49.5	55.7	55.7	37.1	31.0	18.6	18.6
87.5°	0.0	0.0	6.2	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)