

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: P456484

Luminaire Tested: **GALN-SA7D-730-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-730-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51212 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

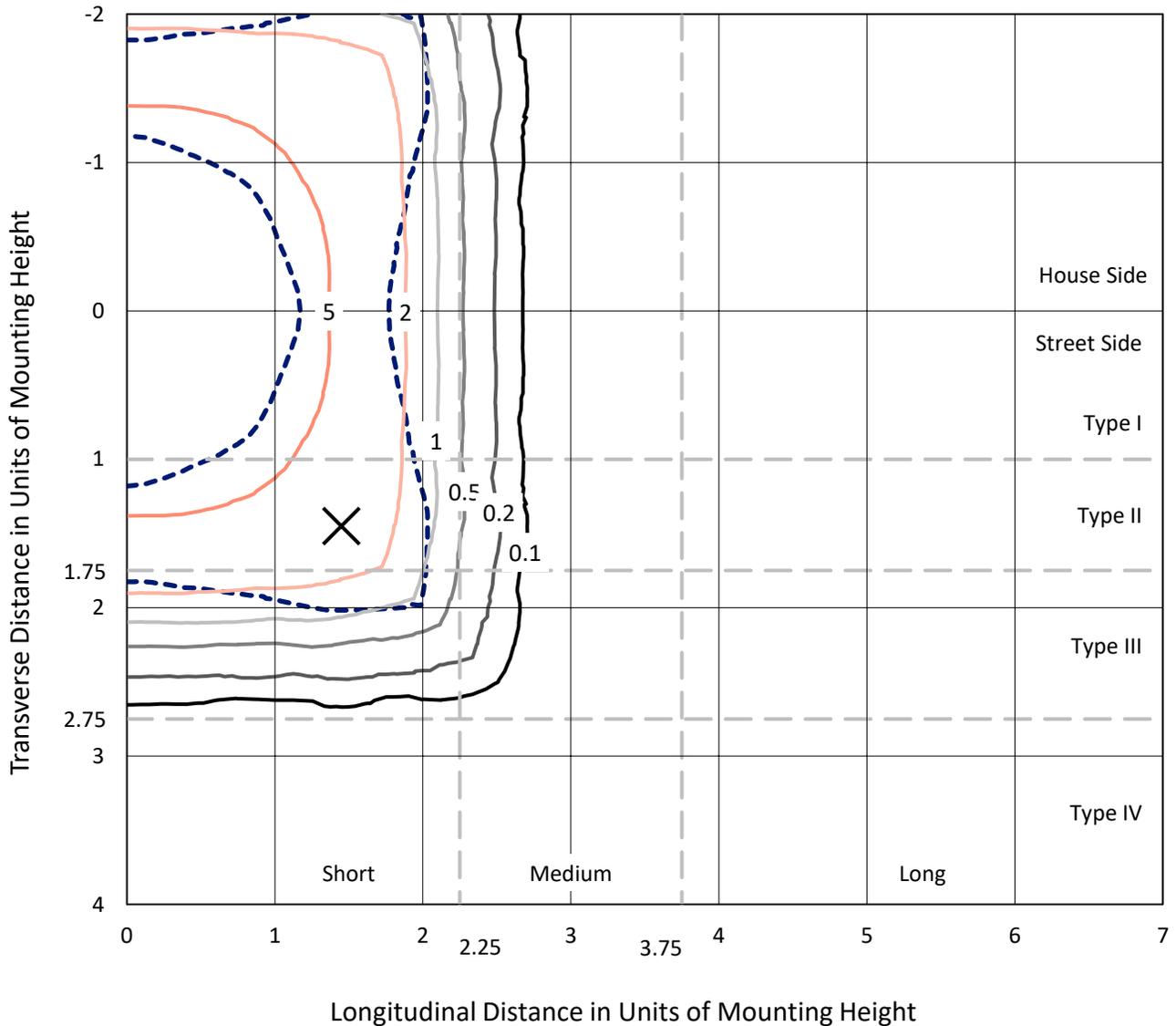
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

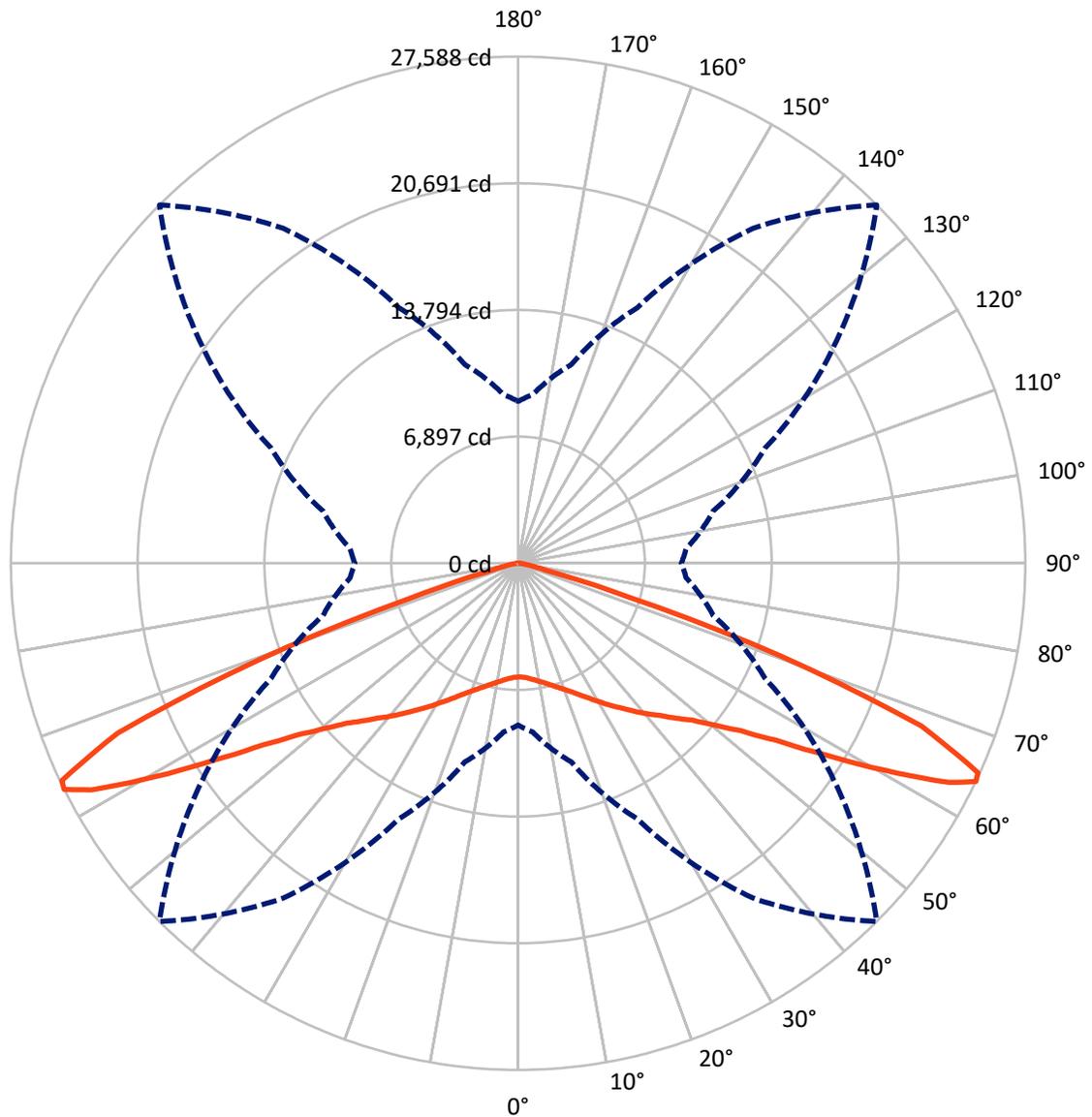
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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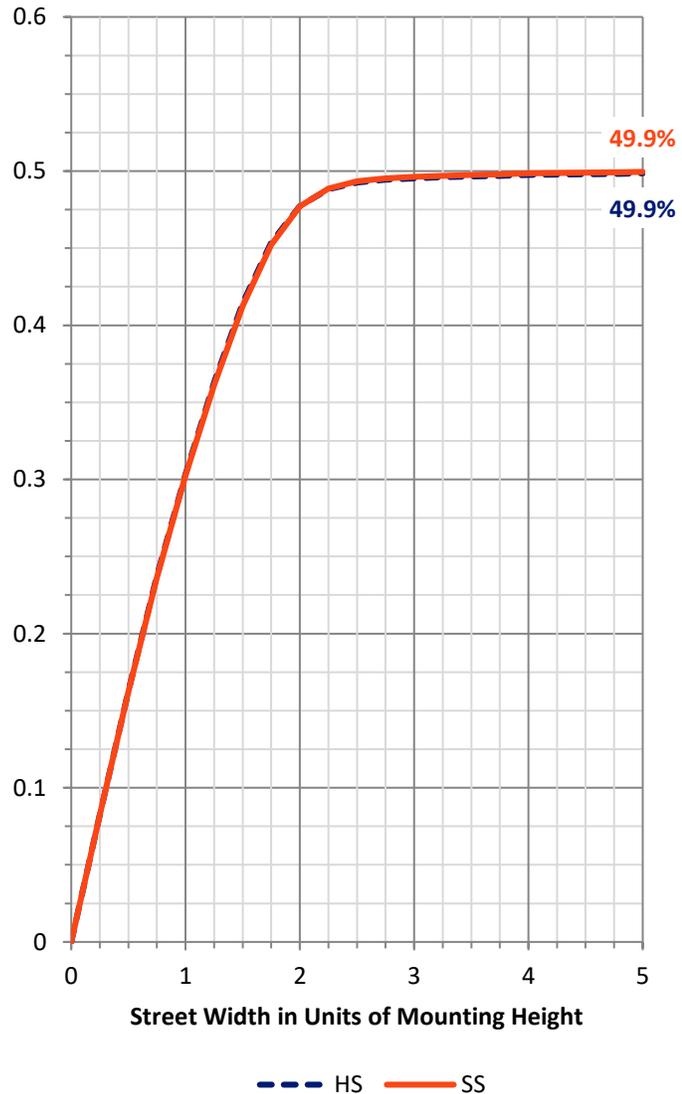
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	25606.0	0.0	25606.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25606.0	0.0	25606.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51212.0	0.0	51212.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.1	1.2
10°-20°	1961.5	3.8
20°-30°	3706.7	7.2
30°-40°	6138.8	12.0
40°-50°	9583.7	18.7
50°-60°	14816.1	28.9
60°-70°	12775.8	24.9
70°-80°	1447.8	2.8
80°-90°	173.5	0.3
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°	51212.0	100.0
0°-180°	51212.0	100.0

**Coefficient of Utilization**



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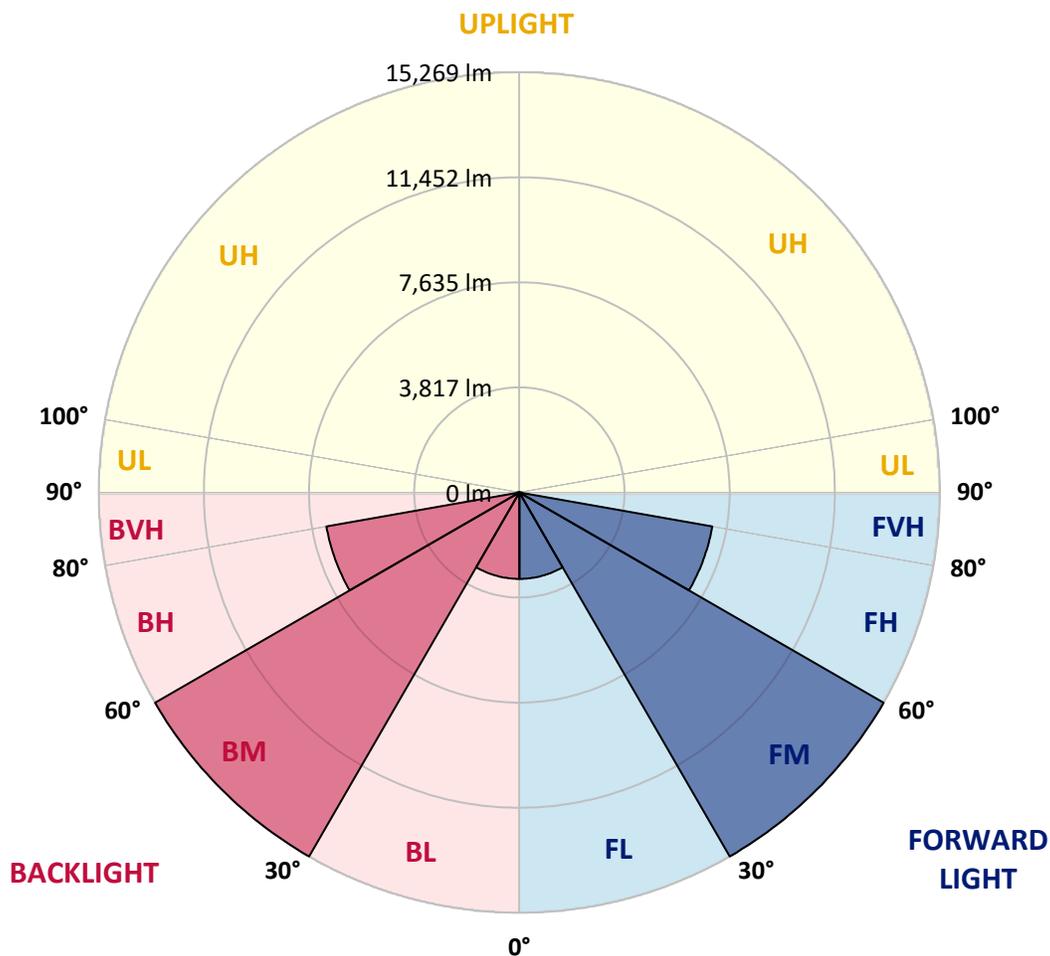
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3138.2	6.1			
FM (30°-60°)	15269.3	29.8			
FH (60°-80°)	7111.8	13.9			G3/7500
FVH (80°-90°)	86.7	0.2			G1/100
BL (0°-30°)	3138.2	6.1	B4/5000		
BM (30°-60°)	15269.3	29.8	B5		
BH (60°-80°)	7111.8	13.9	B5		G3/7500
BVH (80°-90°)	86.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6189.8	6189.8	6189.8	6189.8	6189.8	6189.8	6189.8	6189.8	6189.8	6189.8	6189.8
2.5°	6214.2	6227.8	6217.0	6214.2	6211.5	6211.5	6211.5	6214.2	6225.1	6233.2	6227.8
5°	6292.9	6303.8	6298.3	6295.6	6292.9	6295.6	6290.2	6287.5	6295.6	6295.6	6292.9
7.5°	6390.6	6404.1	6398.7	6404.1	6406.8	6409.5	6396.0	6385.1	6382.4	6390.6	6385.1
10°	6523.5	6534.3	6537.0	6539.7	6545.2	6542.5	6526.2	6507.2	6504.5	6501.8	6499.1
12.5°	6672.6	6680.8	6683.5	6694.3	6702.5	6705.2	6686.2	6669.9	6642.8	6648.2	6637.4
15°	6840.8	6857.1	6854.4	6870.7	6892.4	6897.8	6878.8	6851.7	6827.3	6813.7	6805.6
17.5°	7047.0	7057.8	7052.4	7068.7	7095.8	7109.4	7093.1	7057.8	7033.4	7003.6	6987.3
20°	7291.1	7310.1	7315.5	7315.5	7339.9	7353.5	7329.1	7318.2	7280.2	7258.5	7245.0
22.5°	7567.8	7575.9	7592.2	7608.4	7632.9	7627.4	7619.3	7603.0	7567.8	7548.8	7527.1
25°	7879.7	7887.8	7928.5	7963.8	7971.9	7966.5	7955.6	7947.5	7915.0	7871.6	7855.3
27.5°	8243.2	8259.4	8313.7	8346.2	8346.2	8348.9	8327.2	8354.4	8283.8	8232.3	8226.9
30°	8698.9	8709.7	8755.8	8788.4	8772.1	8758.5	8753.1	8780.2	8704.3	8612.1	8590.4
32.5°	9149.1	9187.1	9227.8	9298.3	9241.3	9216.9	9211.5	9230.5	9143.7	9040.6	9010.8
35°	9631.9	9659.1	9735.0	9794.7	9743.2	9686.2	9710.6	9770.3	9667.2	9528.9	9523.4
37.5°	10166.3	10190.7	10288.4	10350.7	10312.8	10215.1	10255.8	10326.3	10223.3	10052.4	10017.1
40°	10722.4	10773.9	10895.9	10961.0	10898.7	10768.5	10844.4	10920.4	10828.1	10630.1	10551.5
42.5°	11346.2	11427.6	11603.9	11636.4	11517.1	11340.8	11473.7	11595.8	11530.7	11302.8	11273.0
45°	12075.9	12124.7	12341.7	12412.2	12246.8	12027.0	12192.5	12414.9	12366.1	12103.0	12046.0
47.5°	12892.3	12938.4	13163.6	13269.3	13060.5	12764.8	13063.2	13353.4	13323.6	13041.5	13014.4
50°	13858.0	13868.8	14180.7	14300.1	14091.2	13836.3	14102.1	14462.8	14343.5	13982.7	13977.3
52.5°	14915.8	14929.4	15322.7	15553.2	15436.6	15149.1	15463.7	15683.4	15379.6	14907.7	14872.4
55°	15832.6	15900.4	16437.5	17050.5	17210.6	17001.7	17096.6	16993.6	16244.9	15583.1	15480.0
57.5°	16206.9	16339.9	17156.3	18301.0	19342.5	19651.8	18919.4	17937.5	16589.4	15653.6	15553.2
60°	15292.8	15436.6	16703.3	18876.0	21534.2	22876.9	20818.1	18097.5	15805.5	14490.0	14332.6
62.5°	12246.8	12287.4	14150.9	17522.5	22811.8	26289.2	21618.3	16733.2	13524.3	11736.8	11674.4
64°	8812.8	9230.5	11205.2	15363.4	22253.0	27588.4	21157.2	14820.9	10985.5	9176.2	8883.3
65°	6591.3	6705.2	9032.5	13120.2	21268.4	27490.8	20262.1	12992.7	9097.6	7022.6	6697.1
67.5°	2490.0	2503.6	3333.6	6539.7	15140.9	23652.6	15463.7	7068.7	3832.7	2772.1	2671.8
70°	1033.4	1052.4	1223.3	2199.8	6507.2	15187.1	7456.5	2549.7	1402.3	1136.5	1120.2
72.5°	756.8	767.6	819.2	976.5	2001.8	6235.9	2452.1	1082.3	821.9	735.1	726.9
75°	594.0	599.5	637.4	718.8	933.1	1727.8	1019.9	743.2	626.6	564.2	558.8
77.5°	453.0	466.5	493.7	547.9	626.6	819.2	675.4	556.1	482.8	431.3	423.1
80°	311.9	328.2	379.7	401.4	420.4	531.6	461.1	420.4	377.0	314.6	295.7
82.5°	192.6	203.4	255.0	274.0	265.8	298.4	295.7	301.1	268.5	195.3	181.7
85°	100.4	105.8	138.3	143.8	132.9	122.1	151.9	176.3	165.5	111.2	108.5
87.5°	21.7	24.4	29.8	27.1	29.8	29.8	38.0	57.0	59.7	38.0	35.3
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)