

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: P533317

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
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-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34143 lumens
Efficiency: N/A
Efficacy: 69.3 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

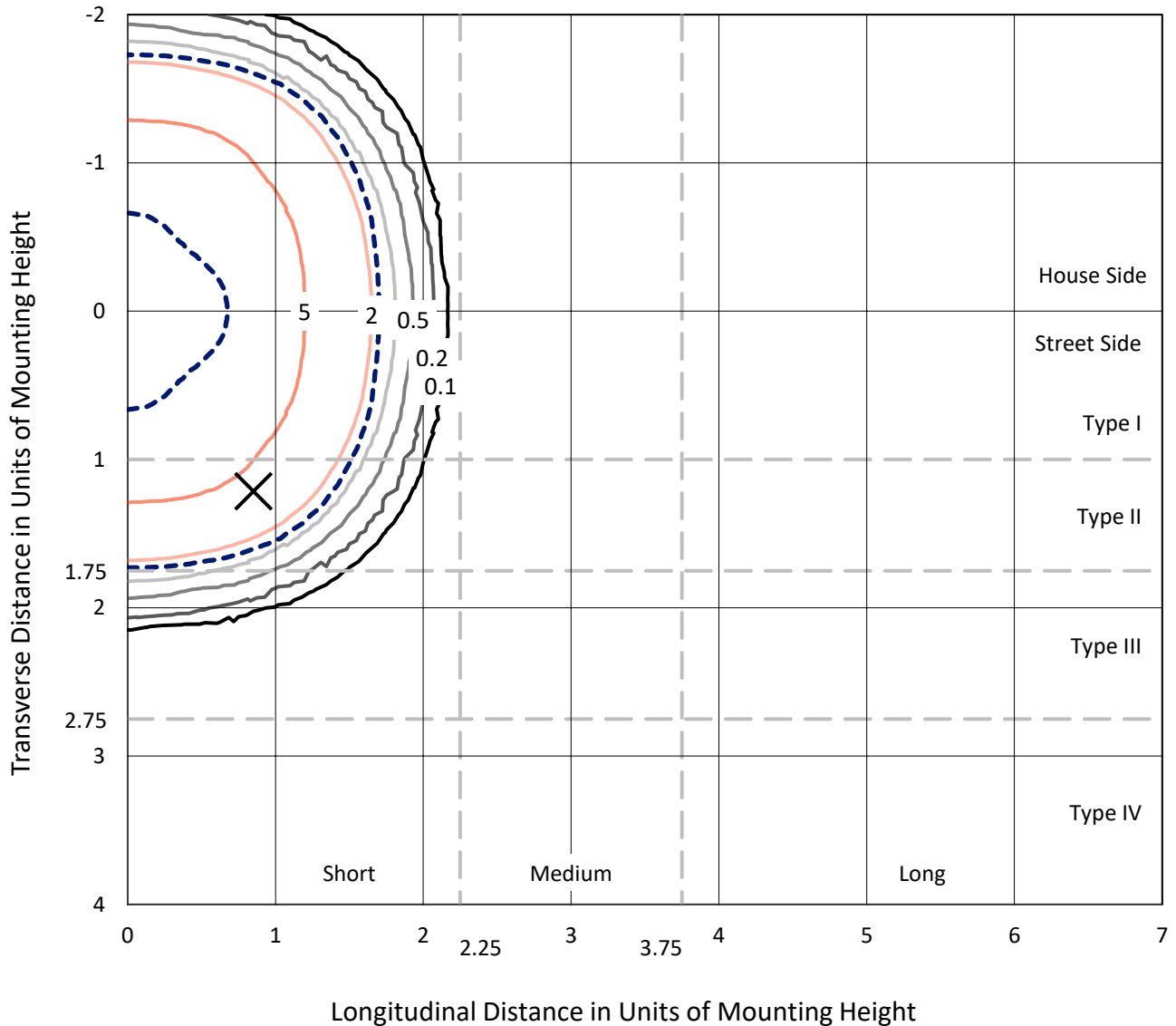
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

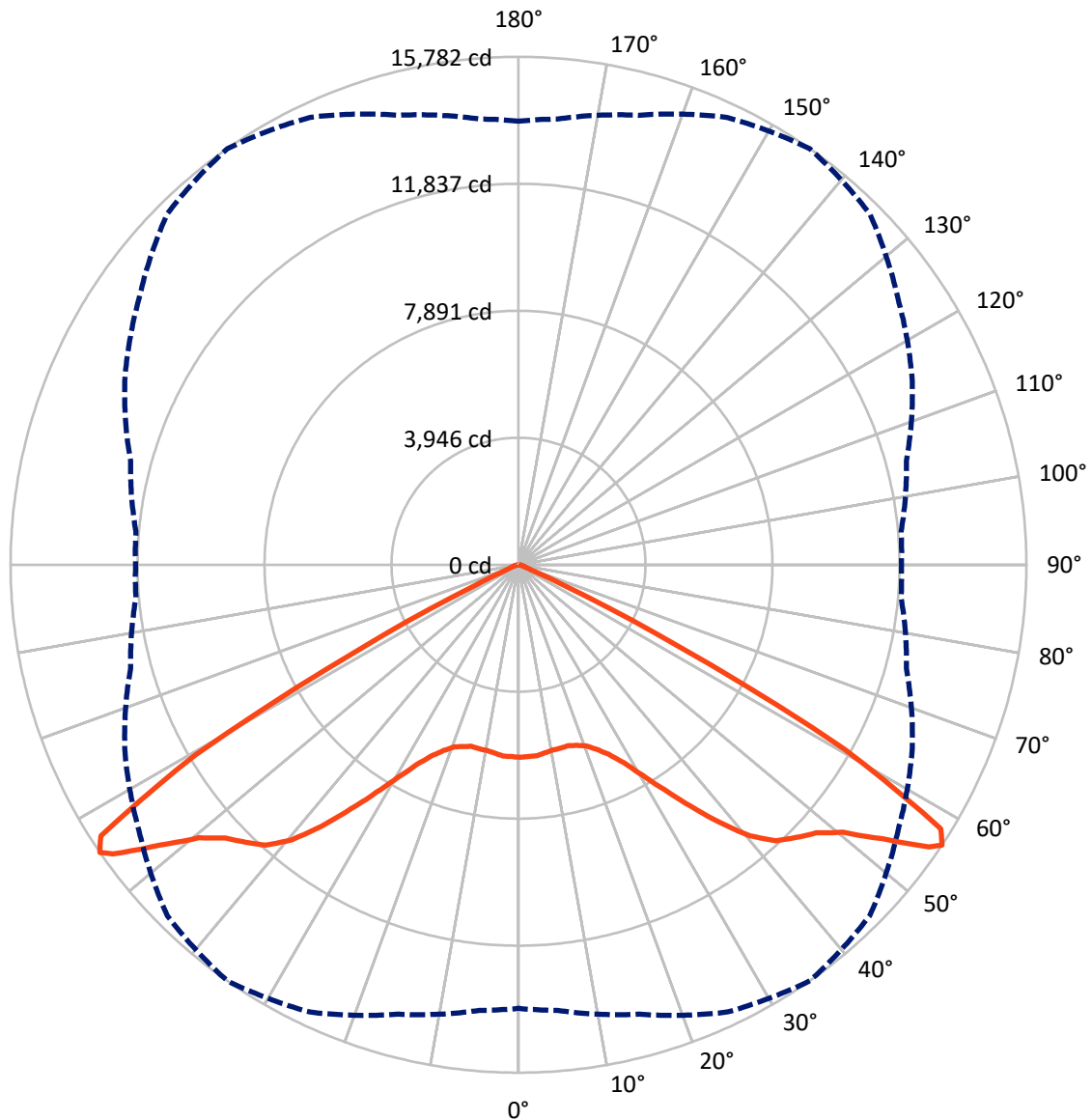
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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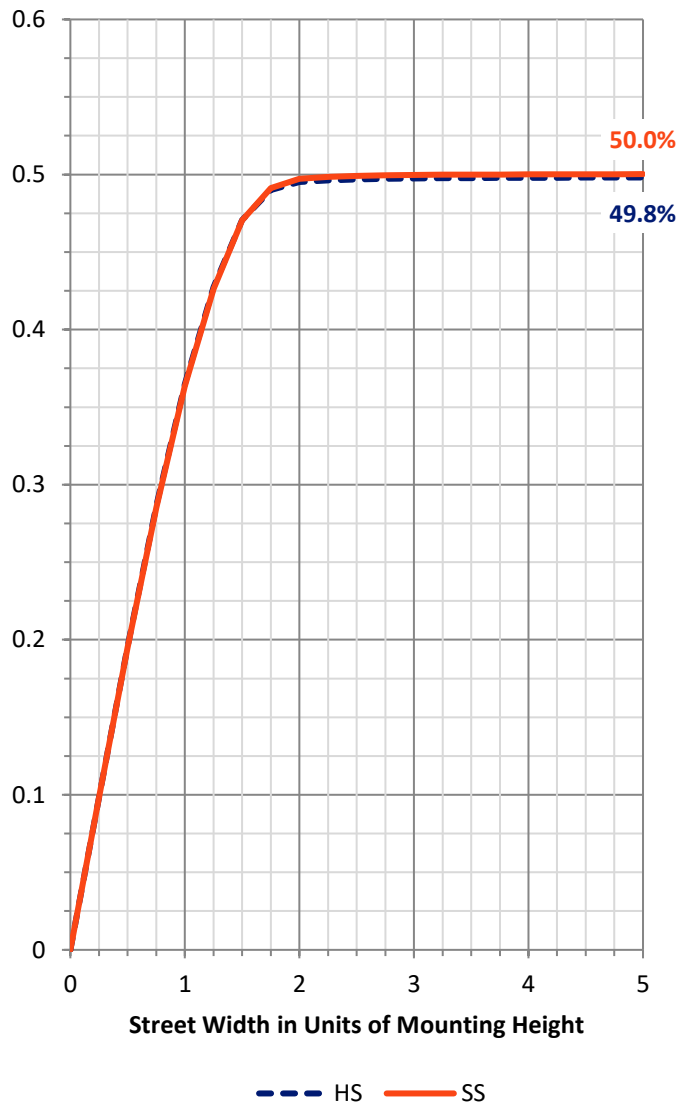
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17071.5	0.0	17071.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17071.5	0.0	17071.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34143.0	0.0	34143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.3	1.6
10°-20°	1641.6	4.8
20°-30°	2972.6	8.7
30°-40°	5512.3	16.1
40°-50°	9048.1	26.5
50°-60°	11656.7	34.1
60°-70°	2569.0	7.5
70°-80°	149.1	0.4
80°-90°	31.4	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°	34143.0	100.0
0°-180°	34143.0	100.0

Coefficient of Utilization



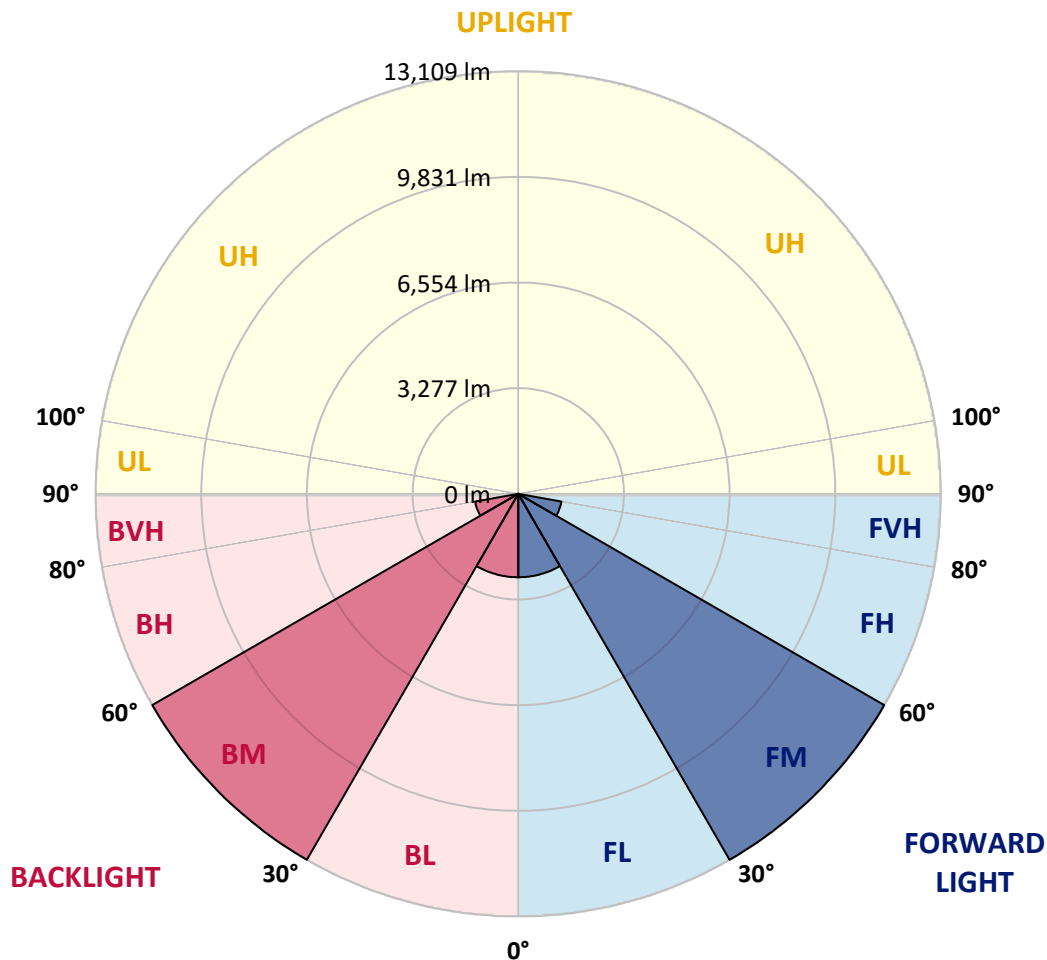
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2588.2	7.6			
FM (30°-60°)	13108.6	38.4			
FH (60°-80°)	1359.0	4.0			G1/1800
FVH (80°-90°)	15.7	0.0			G1/100
BL (0°-30°)	2588.2	7.6	B4/5000		
BM (30°-60°)	13108.6	38.4	B5		
BH (60°-80°)	1359.0	4.0	B3/2500		G1/1800
BVH (80°-90°)	15.7	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°	5982.6	5982.6	5982.6	5982.6	5982.6	5982.6	5982.6	5982.6	5982.6	5982.6	5982.6
2.5°	5995.0	5995.0	6001.1	6007.3	5964.0	5945.5	5951.7	5939.3	5933.1	5951.7	5951.7
5°	5976.4	5976.4	5957.8	5964.0	5964.0	5908.3	5908.3	5920.7	5920.7	5883.6	5871.2
7.5°	5926.9	5914.5	5889.8	5920.7	5902.2	5902.2	5858.9	5827.9	5815.5	5840.3	5815.5
10°	5821.7	5827.9	5852.7	5865.0	5852.7	5889.8	5815.5	5772.2	5728.9	5710.4	5710.4
12.5°	5772.2	5809.4	5772.2	5803.2	5846.5	5815.5	5772.2	5741.3	5679.4	5654.7	5654.7
15°	5766.1	5790.8	5803.2	5846.5	5827.9	5840.3	5753.7	5716.6	5623.8	5580.4	5561.9
17.5°	5759.9	5790.8	5809.4	5889.8	5902.2	5908.3	5840.3	5728.9	5648.5	5605.2	5561.9
20°	5827.9	5840.3	5877.4	5957.8	6007.3	6093.9	5970.2	5852.7	5679.4	5629.9	5611.4
22.5°	5914.5	5976.4	6013.5	6100.1	6230.1	6304.3	6143.4	5995.0	5815.5	5753.7	5679.4
25°	6192.9	6180.6	6242.4	6421.8	6527.0	6582.7	6452.8	6236.2	6001.1	5926.9	5939.3
27.5°	6539.4	6551.8	6607.4	6805.4	6960.1	7046.7	6892.0	6607.4	6378.5	6254.8	6242.4
30°	6991.0	6978.7	7040.5	7306.6	7585.0	7714.9	7442.7	7108.6	6885.9	6725.0	6762.1
32.5°	7467.4	7473.6	7646.8	7888.1	8339.7	8593.4	8154.1	7745.8	7411.7	7300.4	7244.7
35°	8172.7	8203.6	8339.7	8710.9	9212.1	9540.0	9057.4	8568.6	8185.1	7980.9	8005.7
37.5°	9045.0	9014.1	9243.0	9645.1	10171.0	10412.3	10004.0	9447.2	9057.4	8921.3	9007.9
40°	9973.0	10004.0	10121.5	10486.5	11074.3	11235.1	10628.8	10325.7	9985.4	9917.4	10022.5
42.5°	10901.1	10882.5	10969.1	11297.0	11723.9	11612.5	11253.7	11074.3	10833.0	10696.9	10839.2
45°	11581.6	11550.7	11711.5	11934.2	12088.9	11878.6	11717.7	11655.8	11532.1	11383.6	11513.5
47.5°	12243.6	12218.8	12373.5	12435.4	12447.7	12169.3	12200.3	12311.6	12002.3	11693.0	11841.4
50°	12806.6	12763.3	12955.1	13091.2	13060.2	12614.8	12726.1	12614.8	12132.2	11767.2	11711.5
52.5°	13747.0	13765.5	13969.7	14217.2	14142.9	13771.7	13610.9	13103.5	12484.9	12157.0	11965.2
55°	14340.9	14248.1	14600.7	15386.4	15473.1	15089.5	14378.0	13629.4	12701.4	12299.3	12249.8
56°	13784.1	13901.6	14458.4	15337.0	15782.4	15429.8	14396.6	13499.5	12478.7	11934.2	11897.1
57.5°	12367.3	12305.4	13060.2	14260.5	15473.1	15324.6	13889.3	12571.5	11383.6	10771.1	10696.9
60°	7696.3	7875.7	8537.7	10022.5	11643.5	11717.7	10294.8	9162.6	7776.7	7232.3	7362.2
62.5°	3012.9	2858.3	3272.8	4380.2	5493.8	5741.3	5203.1	4324.5	3551.2	3012.9	2975.8
65°	699.1	680.5	767.2	1057.9	1478.6	1713.7	1627.1	1169.3	860.0	816.7	754.8
67.5°	396.0	396.0	377.4	377.4	414.5	439.3	420.7	414.5	433.1	451.6	445.4
70°	278.4	272.2	259.8	266.0	253.7	253.7	272.2	303.2	327.9	327.9	334.1
72.5°	167.0	167.0	167.0	185.6	185.6	185.6	204.2	228.9	235.1	228.9	222.7
75°	74.2	74.2	86.6	105.2	117.5	123.7	142.3	154.7	167.0	154.7	142.3
77.5°	18.6	18.6	30.9	43.3	55.7	68.1	92.8	111.4	117.5	111.4	92.8
80°	6.2	6.2	12.4	30.9	55.7	68.1	92.8	99.0	105.2	92.8	74.2
82.5°	6.2	6.2	12.4	30.9	43.3	55.7	74.2	86.6	92.8	80.4	74.2
85°	0.0	6.2	12.4	24.7	37.1	49.5	49.5	37.1	30.9	18.6	24.7
87.5°	0.0	0.0	6.2	6.2	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)