

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: P533318

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
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-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50215 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

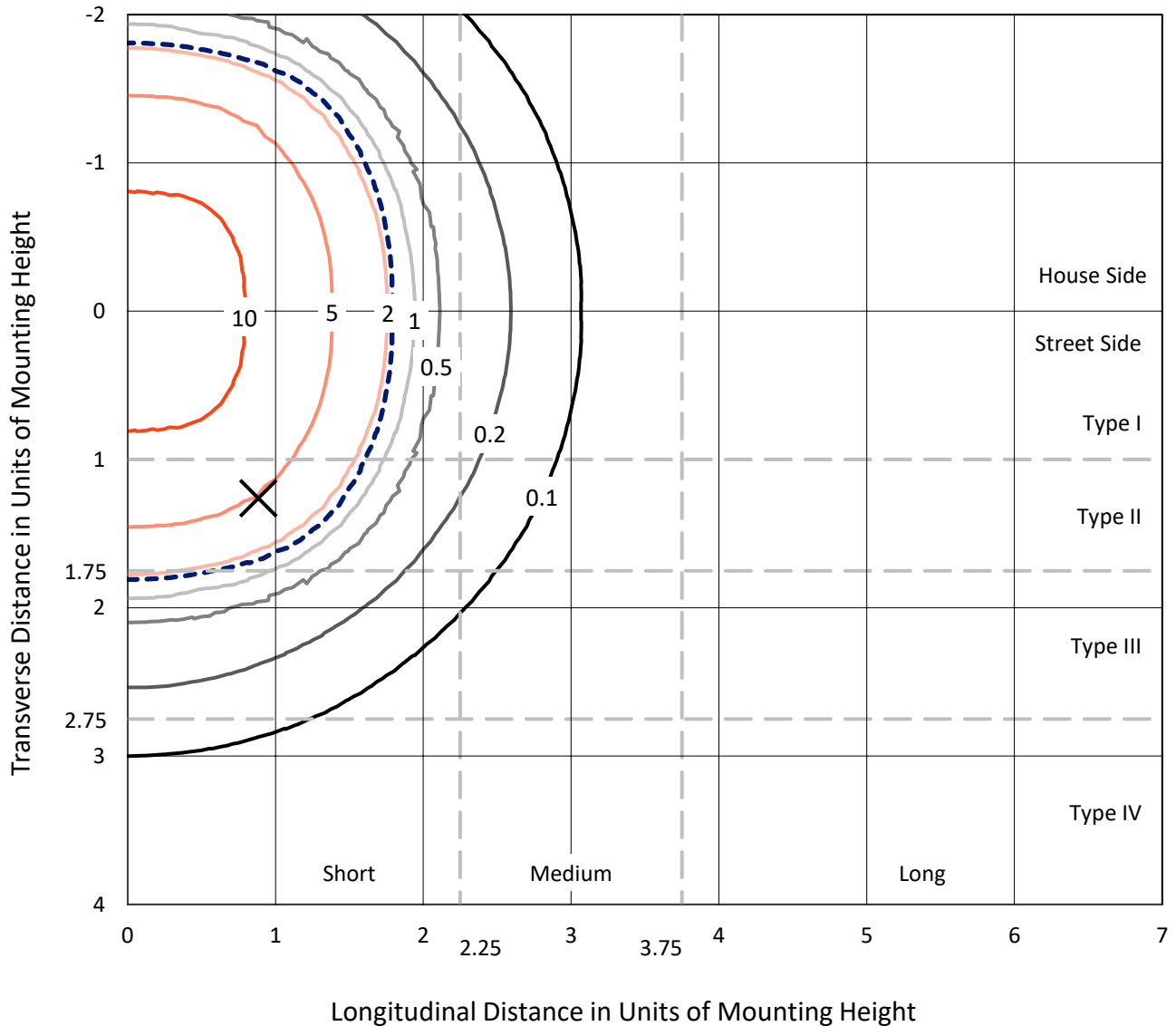
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

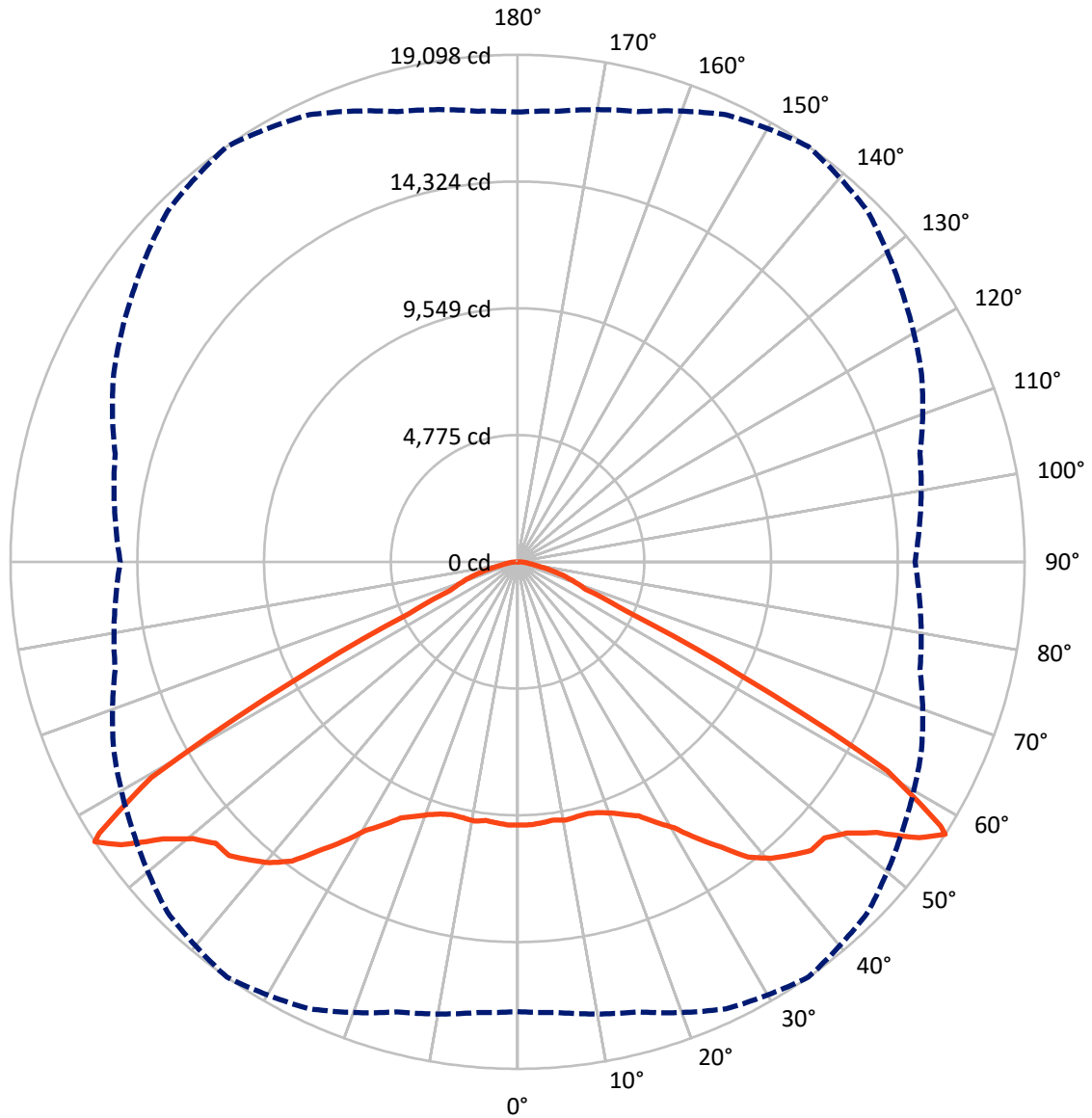
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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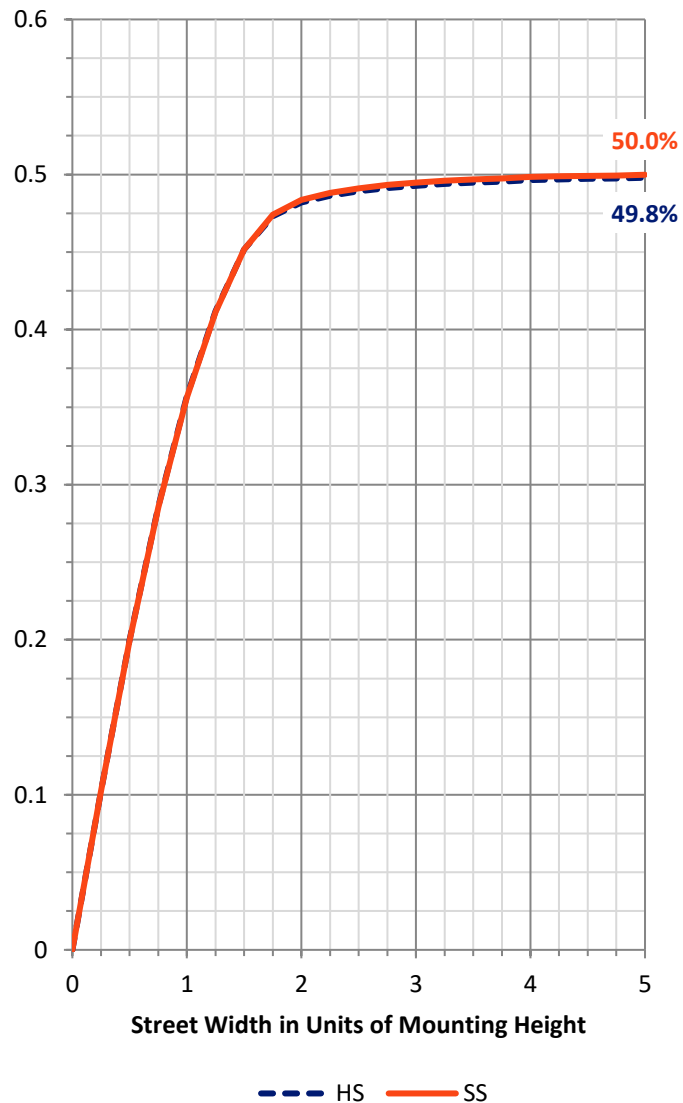
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25107.5	0.0	25107.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25107.5	0.0	25107.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	50215.0	0.0	50215.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.2	1.9
10°-20°	2784.5	5.5
20°-30°	4863.2	9.7
30°-40°	7968.4	15.9
40°-50°	11683.6	23.3
50°-60°	14716.4	29.3
60°-70°	5534.7	11.0
70°-80°	1471.6	2.9
80°-90°	252.3	0.5
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°	50215.0	100.0
0°-180°	50215.0	100.0

Coefficient of Utilization

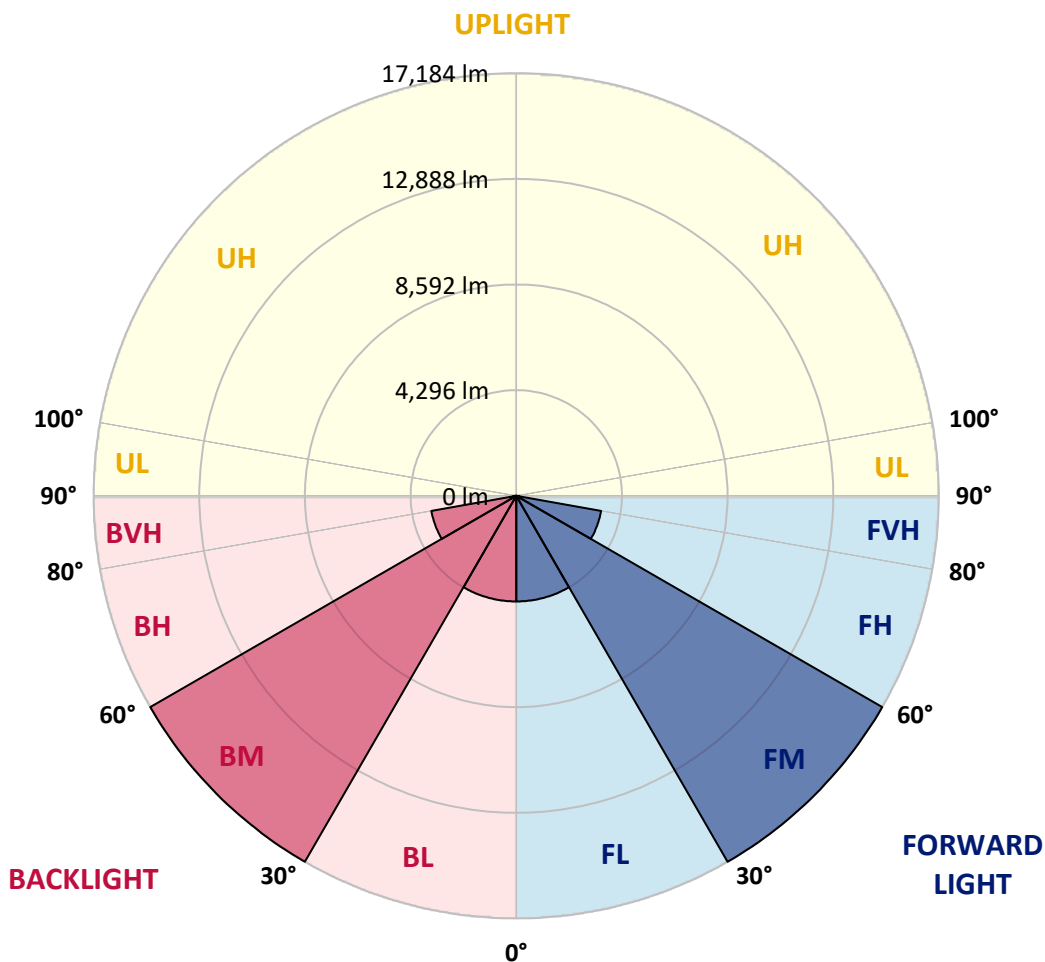


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4293.9	8.6			
FM (30°-60°)	17184.2	34.2			
FH (60°-80°)	3503.2	7.0			G2/5000
FVH (80°-90°)	126.2	0.3			G2/225
BL (0°-30°)	4293.9	8.6	B4/5000		
BM (30°-60°)	17184.2	34.2	B5		
BH (60°-80°)	3503.2	7.0	B4/5000		G2/5000
BVH (80°-90°)	126.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9917.1	9917.1	9917.1	9917.1	9917.1	9917.1	9917.1	9917.1	9917.1	9917.1	9917.1
2.5°	9867.6	9966.6	9923.3	9898.5	9917.1	9886.2	9836.7	9892.3	9880.0	9830.5	9811.9
5°	9842.9	9917.1	9867.6	9917.1	9867.6	9954.2	9929.5	9836.7	9948.0	9842.9	9880.0
7.5°	9824.3	9849.0	9861.4	9836.7	9818.1	9923.3	9867.6	9824.3	9762.4	9743.9	9774.8
10°	9781.0	9842.9	9750.1	9873.8	9898.5	9824.3	9824.3	9743.9	9694.4	9663.4	9768.6
12.5°	9892.3	9787.2	9774.8	9836.7	9855.2	9886.2	9799.5	9756.2	9663.4	9675.8	9657.3
15°	9762.4	9805.7	9811.9	9824.3	9842.9	9917.1	9836.7	9743.9	9706.7	9576.8	9589.2
17.5°	9811.9	9768.6	9811.9	9954.2	9929.5	9985.1	9898.5	9756.2	9669.6	9595.4	9694.4
20°	9898.5	9880.0	9898.5	10071.8	10102.7	10152.2	10077.9	9948.0	9781.0	9694.4	9743.9
22.5°	9991.3	9979.0	9991.3	10158.4	10337.8	10399.6	10325.4	10022.3	9935.7	9774.8	9719.1
25°	10158.4	10170.7	10300.7	10486.3	10603.8	10721.3	10585.2	10368.7	10090.3	9991.3	9873.8
27.5°	10529.6	10560.5	10634.7	10906.9	11111.1	11216.3	11024.5	10727.5	10554.3	10350.2	10319.2
30°	10987.4	10987.4	11117.3	11352.4	11630.8	11791.6	11556.5	11203.9	10993.6	10882.2	10814.1
32.5°	11593.7	11525.6	11575.1	11989.6	12422.7	12558.8	12243.2	11810.2	11476.1	11327.6	11278.1
35°	12113.3	12156.6	12268.0	12713.4	13196.0	13511.5	13016.6	12453.6	12113.3	11977.2	11952.5
37.5°	12787.7	12861.9	12917.6	13530.1	14111.6	14229.1	13752.8	13301.2	12886.7	12775.3	12713.4
40°	13740.4	13690.9	13709.5	14161.1	14686.9	14761.2	14291.0	13969.3	13629.0	13561.0	13561.0
42.5°	14526.1	14470.4	14532.3	14699.3	15101.4	15045.8	14785.9	14550.8	14408.6	14334.3	14408.6
45°	15002.5	14990.1	15101.4	15225.2	15509.8	15324.2	15120.0	15157.1	15021.0	14897.3	14891.1
47.5°	15522.1	15441.7	15577.8	15763.4	15546.9	15460.3	15447.9	15528.3	15485.0	15268.5	15200.4
50°	15775.8	15744.9	15961.4	16177.9	16060.4	15862.4	15905.7	16035.6	15478.8	15188.1	15021.0
52.5°	16456.3	16462.5	16877.0	16994.5	16945.1	16654.3	16747.1	16394.4	15738.7	15330.4	15348.9
55°	17526.6	17483.3	17947.3	18293.7	18349.4	17978.2	17532.8	17037.8	16215.0	15800.5	15676.8
57°	16938.9	17037.8	17551.3	18578.3	19098.0	18658.7	17687.4	16784.2	15689.2	15188.1	14965.3
57.5°	16153.2	16314.0	17204.9	18238.0	18782.5	18745.3	17495.7	16314.0	15336.5	14557.0	14575.6
60°	11834.9	11865.9	12670.1	14309.6	16010.9	16048.0	14526.1	12960.9	11872.1	11024.5	11142.0
62.5°	6242.3	6384.6	6706.3	8024.0	9496.4	9855.2	8933.4	8129.2	7188.8	6545.4	6607.3
65°	3303.6	3285.1	3439.7	3810.9	4534.8	4720.4	4596.6	3959.4	3631.5	3526.4	3532.5
67.5°	2685.0	2715.9	2697.4	2715.9	2765.4	2845.8	2827.3	2852.0	2870.6	2901.5	2895.3
70°	2276.7	2276.7	2289.0	2295.2	2295.2	2332.3	2375.6	2456.1	2462.3	2493.2	2505.6
72.5°	1794.1	1781.7	1800.3	1843.6	1849.8	1880.7	1942.6	1992.1	2010.6	2010.6	1973.5
75°	1218.8	1231.1	1255.9	1293.0	1330.1	1385.8	1435.3	1466.2	1478.6	1460.0	1441.5
77.5°	686.7	699.1	717.6	773.3	816.6	866.1	921.8	952.7	983.7	989.9	952.7
80°	408.3	408.3	439.2	482.6	532.0	581.5	631.0	668.2	680.5	680.5	662.0
82.5°	247.5	253.6	278.4	321.7	365.0	395.9	439.2	470.2	494.9	488.7	476.4
85°	129.9	129.9	154.7	191.8	222.7	253.6	253.6	235.1	222.7	191.8	179.4
87.5°	43.3	37.1	49.5	49.5	43.3	49.5	49.5	55.7	55.7	55.7	55.7
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)