

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: P531680

Luminaire Tested: **GALN-SA7A-730-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531680
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-SA7A-730-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 25605 lumens
Efficiency: N/A
Efficacy: 119.1 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

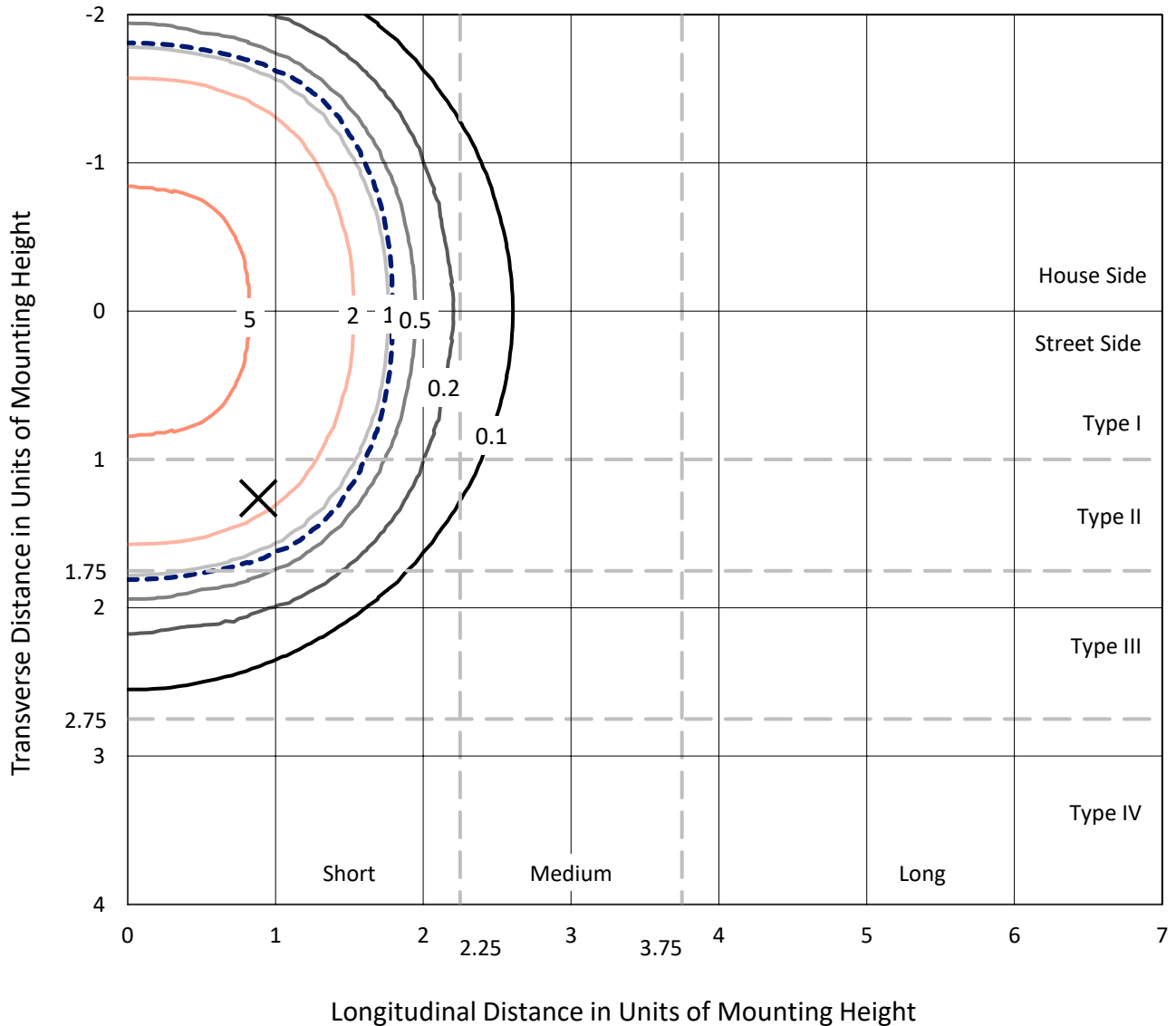
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

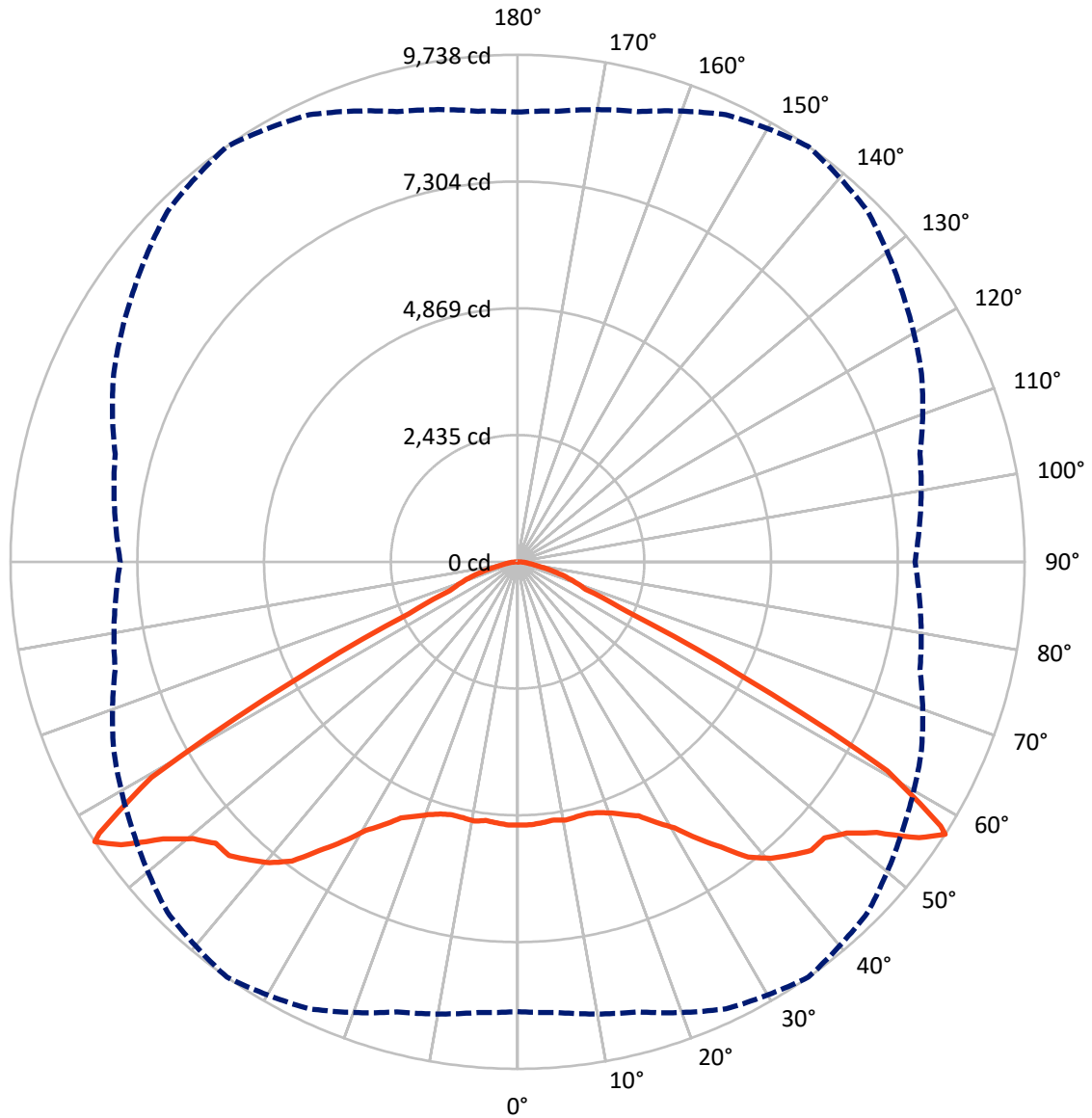
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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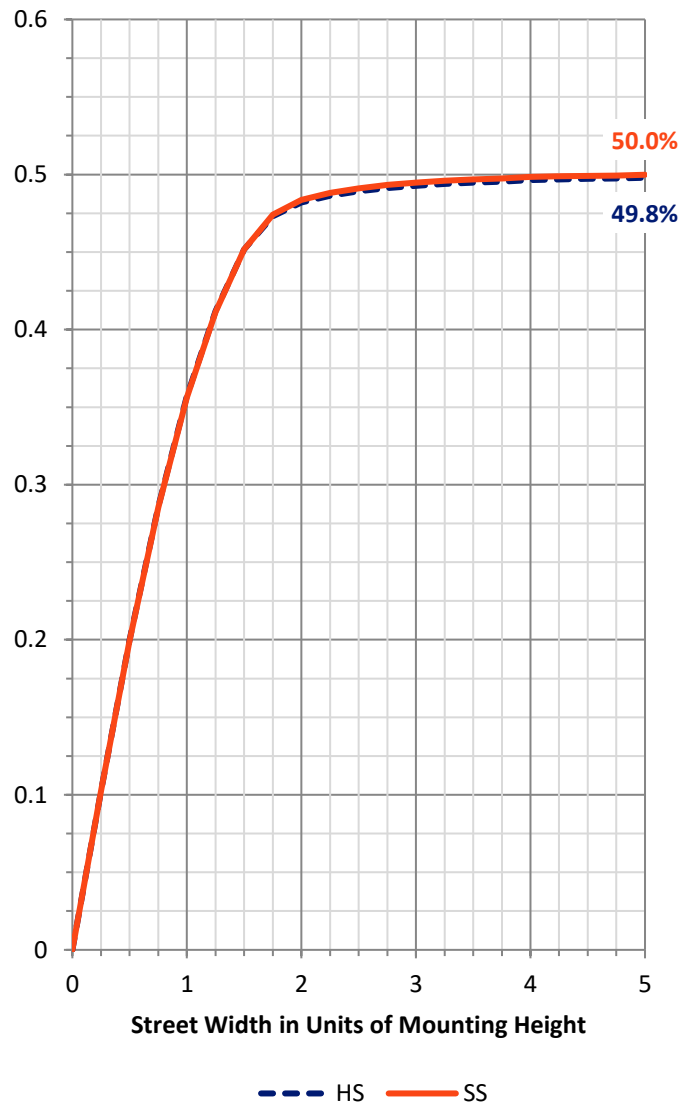
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12802.5	0.0	12802.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12802.5	0.0	12802.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25605.0	0.0	25605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.4	1.9
10°-20°	1419.9	5.5
20°-30°	2479.8	9.7
30°-40°	4063.1	15.9
40°-50°	5957.6	23.3
50°-60°	7504.0	29.3
60°-70°	2822.2	11.0
70°-80°	750.4	2.9
80°-90°	128.7	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°	25605.0	100.0
0°-180°	25605.0	100.0

Coefficient of Utilization

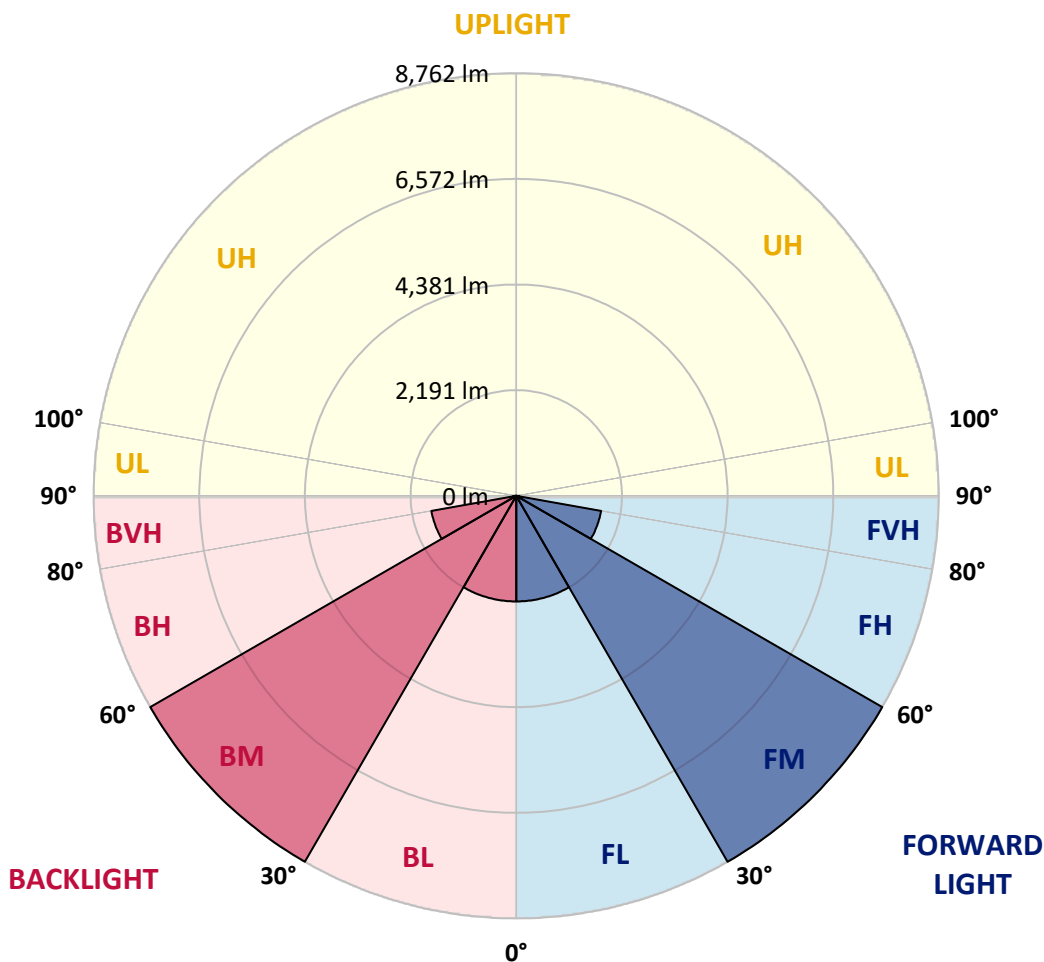


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2189.5	8.6			
FM (30°-60°)	8762.4	34.2			
FH (60°-80°)	1786.3	7.0			G1/1800
FVH (80°-90°)	64.3	0.3			G1/100
BL (0°-30°)	2189.5	8.6	B3/2500		
BM (30°-60°)	8762.4	34.2	B5		
BH (60°-80°)	1786.3	7.0	B3/2500		G1/1800
BVH (80°-90°)	64.3	0.3			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°	5056.8	5056.8	5056.8	5056.8	5056.8	5056.8	5056.8	5056.8	5056.8	5056.8	5056.8
2.5°	5031.6	5082.0	5060.0	5047.3	5056.8	5041.0	5015.8	5044.2	5037.9	5012.6	5003.2
5°	5018.9	5056.8	5031.6	5056.8	5031.6	5075.7	5063.1	5015.8	5072.6	5018.9	5037.9
7.5°	5009.5	5022.1	5028.4	5015.8	5006.3	5060.0	5031.6	5009.5	4977.9	4968.5	4984.2
10°	4987.4	5018.9	4971.6	5034.7	5047.3	5009.5	5009.5	4968.5	4943.2	4927.5	4981.1
12.5°	5044.2	4990.6	4984.2	5015.8	5025.3	5041.0	4996.9	4974.8	4927.5	4933.8	4924.3
15°	4977.9	5000.0	5003.2	5009.5	5018.9	5056.8	5015.8	4968.5	4949.5	4883.3	4889.6
17.5°	5003.2	4981.1	5003.2	5075.7	5063.1	5091.5	5047.3	4974.8	4930.6	4892.8	4943.2
20°	5047.3	5037.9	5047.3	5135.7	5151.4	5176.7	5138.8	5072.6	4987.4	4943.2	4968.5
22.5°	5094.7	5088.3	5094.7	5179.8	5271.3	5302.9	5265.0	5110.4	5066.3	4984.2	4955.9
25°	5179.8	5186.1	5252.4	5347.0	5407.0	5466.9	5397.5	5287.1	5145.1	5094.7	5034.7
27.5°	5369.1	5384.9	5422.7	5561.5	5665.6	5719.3	5621.5	5470.0	5381.7	5277.6	5261.8
30°	5602.5	5602.5	5668.8	5788.7	5930.6	6012.6	5892.8	5713.0	5605.7	5548.9	5514.2
32.5°	5911.7	5877.0	5902.2	6113.6	6334.4	6403.8	6242.9	6022.1	5851.8	5776.0	5750.8
35°	6176.7	6198.8	6255.5	6482.7	6728.7	6889.6	6637.2	6350.2	6176.7	6107.3	6094.7
37.5°	6520.5	6558.4	6586.8	6899.1	7195.6	7255.5	7012.6	6782.4	6571.0	6514.2	6482.7
40°	7006.3	6981.1	6990.6	7220.8	7489.0	7526.8	7287.1	7123.1	6949.5	6914.8	6914.8
42.5°	7407.0	7378.6	7410.1	7495.3	7700.3	7671.9	7539.5	7419.6	7347.0	7309.2	7347.0
45°	7649.9	7643.6	7700.3	7763.4	7908.5	7813.9	7709.8	7728.7	7659.3	7596.2	7593.1
47.5°	7914.9	7873.8	7943.2	8037.9	7927.5	7883.3	7877.0	7918.0	7895.9	7785.5	7750.8
50°	8044.2	8028.4	8138.8	8249.2	8189.3	8088.4	8110.4	8176.7	7892.8	7744.5	7659.3
52.5°	8391.2	8394.3	8605.7	8665.6	8640.4	8492.1	8539.5	8359.6	8025.3	7817.1	7826.5
55°	8936.9	8914.9	9151.4	9328.1	9356.5	9167.2	8940.1	8687.7	8268.2	8056.8	7993.7
57°	8637.3	8687.7	8949.6	9473.2	9738.2	9514.2	9019.0	8558.4	8000.0	7744.5	7630.9
57.5°	8236.6	8318.6	8772.9	9299.7	9577.3	9558.4	8921.2	8318.6	7820.2	7422.7	7432.2
60°	6034.7	6050.5	6460.6	7296.6	8164.1	8183.0	7407.0	6608.9	6053.6	5621.5	5681.4
62.5°	3183.0	3255.5	3419.6	4091.5	4842.3	5025.3	4555.2	4145.1	3665.6	3337.6	3369.1
65°	1684.5	1675.1	1753.9	1943.2	2312.3	2406.9	2343.9	2018.9	1851.7	1798.1	1801.3
67.5°	1369.1	1384.9	1375.4	1384.9	1410.1	1451.1	1441.6	1454.3	1463.7	1479.5	1476.3
70°	1160.9	1160.9	1167.2	1170.4	1170.4	1189.3	1211.4	1252.4	1255.5	1271.3	1277.6
72.5°	914.8	908.5	918.0	940.1	943.2	959.0	990.5	1015.8	1025.2	1025.2	1006.3
75°	621.5	627.8	640.4	659.3	678.2	706.6	731.9	747.6	753.9	744.5	735.0
77.5°	350.2	356.5	365.9	394.3	416.4	441.6	470.0	485.8	501.6	504.7	485.8
80°	208.2	208.2	224.0	246.1	271.3	296.5	321.8	340.7	347.0	347.0	337.5
82.5°	126.2	129.3	142.0	164.0	186.1	201.9	224.0	239.7	252.4	249.2	242.9
85°	66.2	66.2	78.9	97.8	113.6	129.3	129.3	119.9	113.6	97.8	91.5
87.5°	22.1	18.9	25.2	25.2	22.1	25.2	25.2	28.4	28.4	28.4	28.4
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)