

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: P531684

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
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-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24610 lumens  
Efficiency: N/A  
Efficacy: 114.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

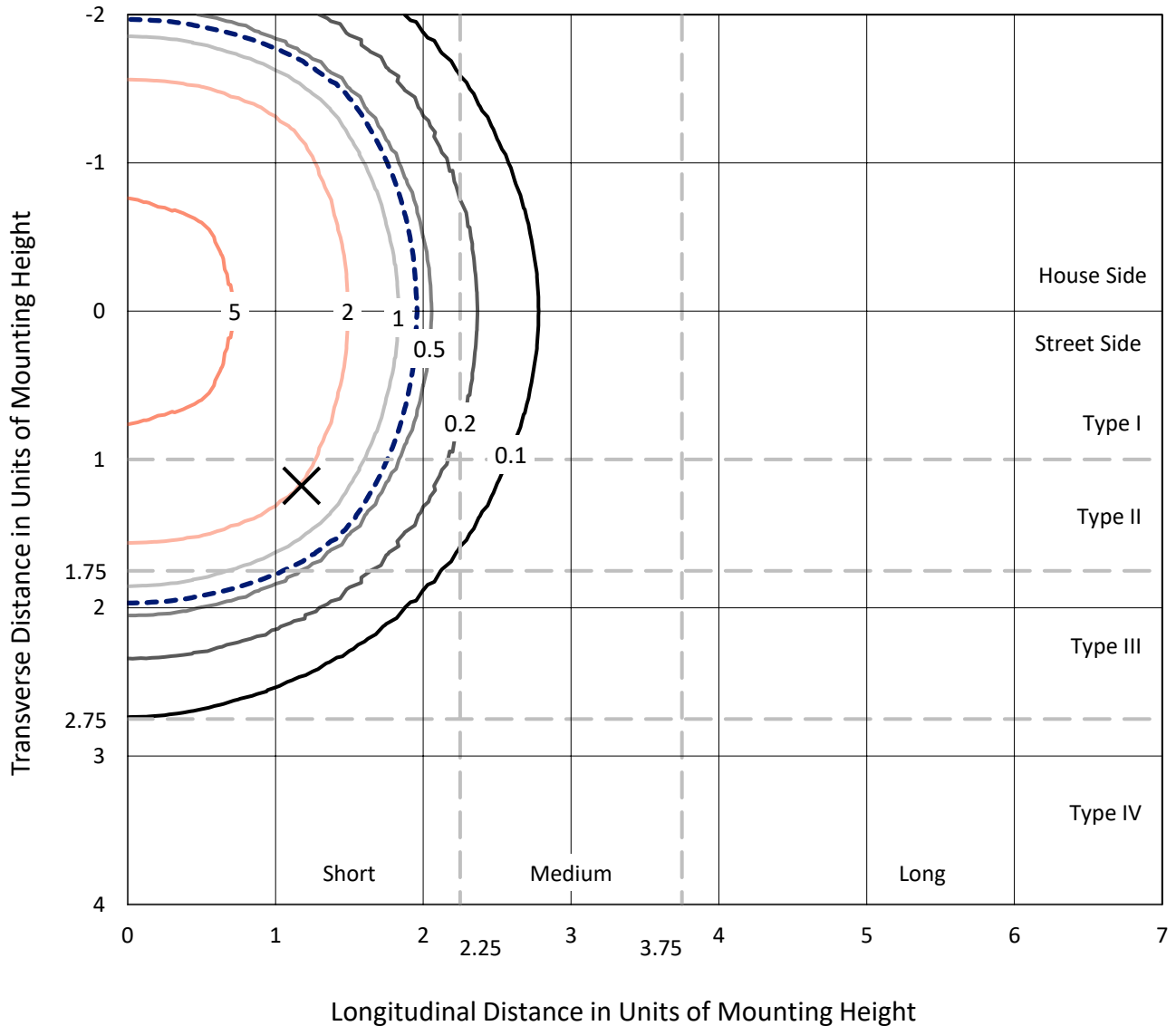
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

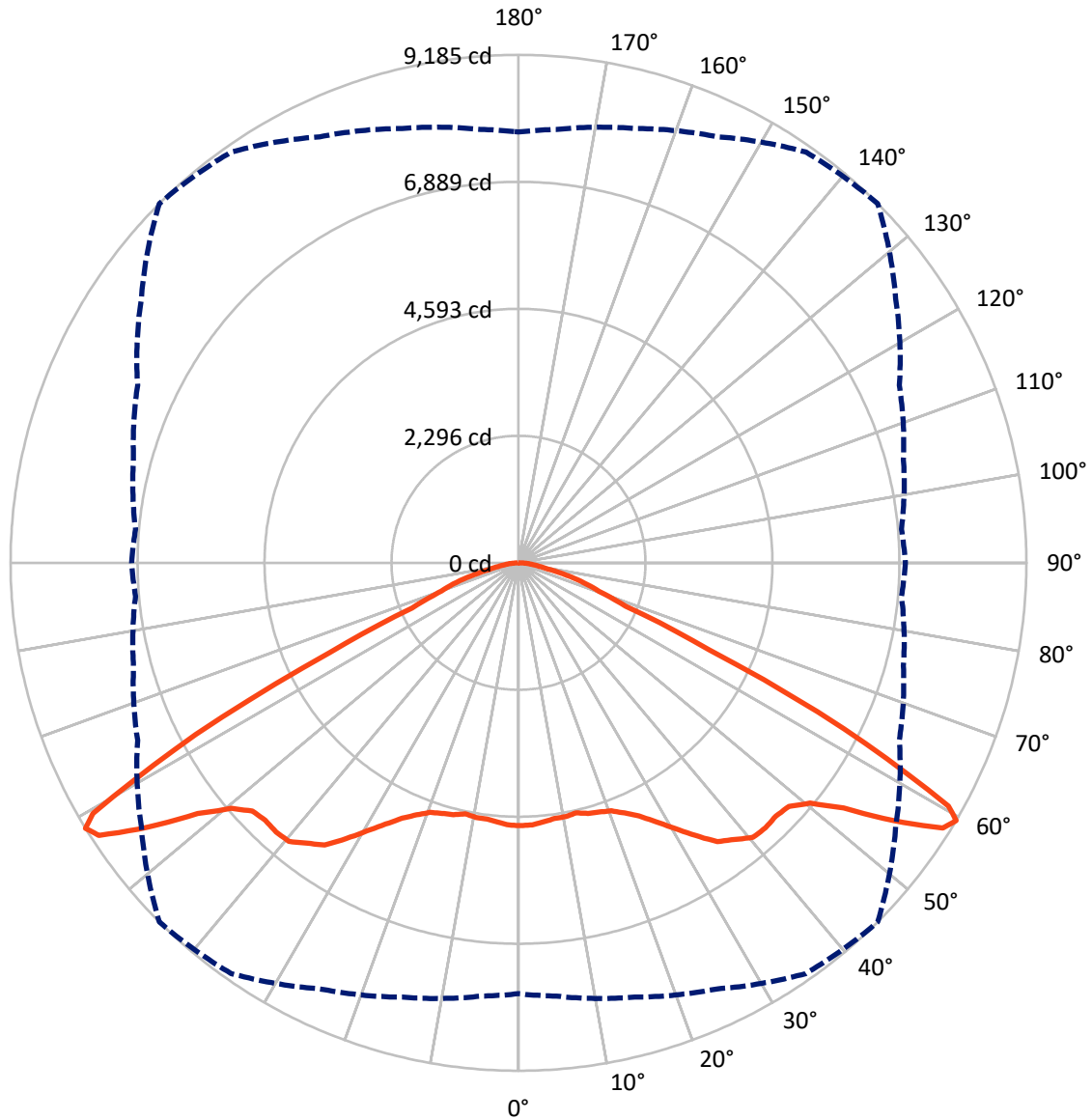
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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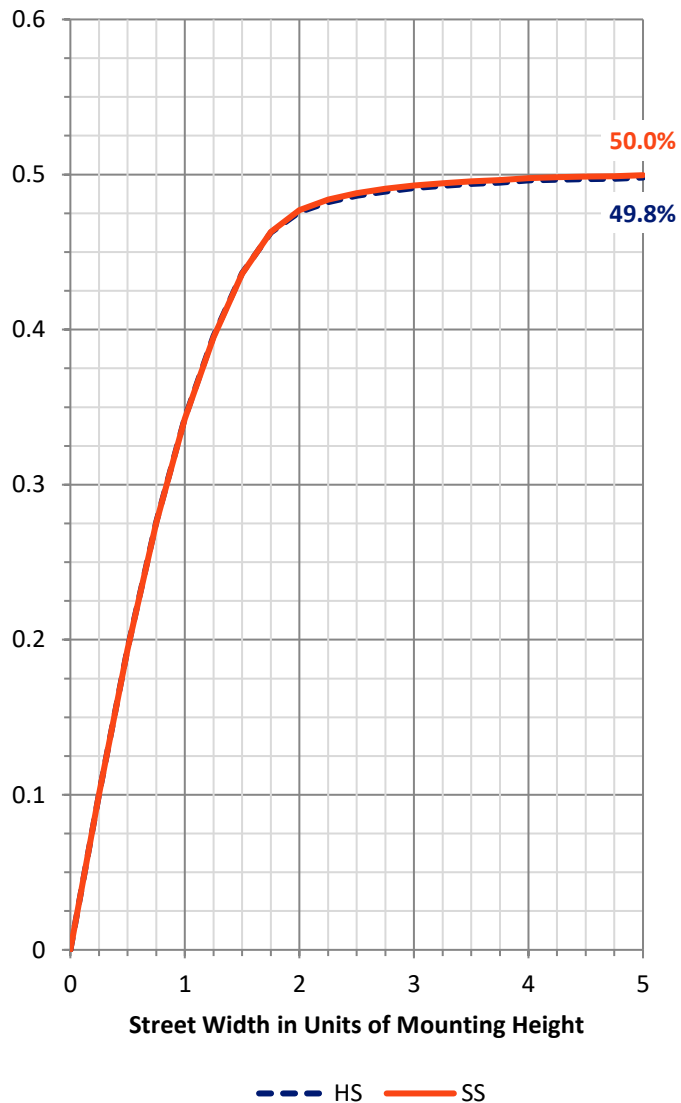
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12305.0	0.0	12305.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12305.0	0.0	12305.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24610.0	0.0	24610.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	448.1	1.8
10°-20°	1332.6	5.4
20°-30°	2326.8	9.5
30°-40°	3716.3	15.1
40°-50°	5062.3	20.6
50°-60°	6845.6	27.8
60°-70°	3754.1	15.3
70°-80°	960.4	3.9
80°-90°	163.8	0.7
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°	24610.0	100.0
0°-180°	24610.0	100.0

**Coefficient of Utilization**

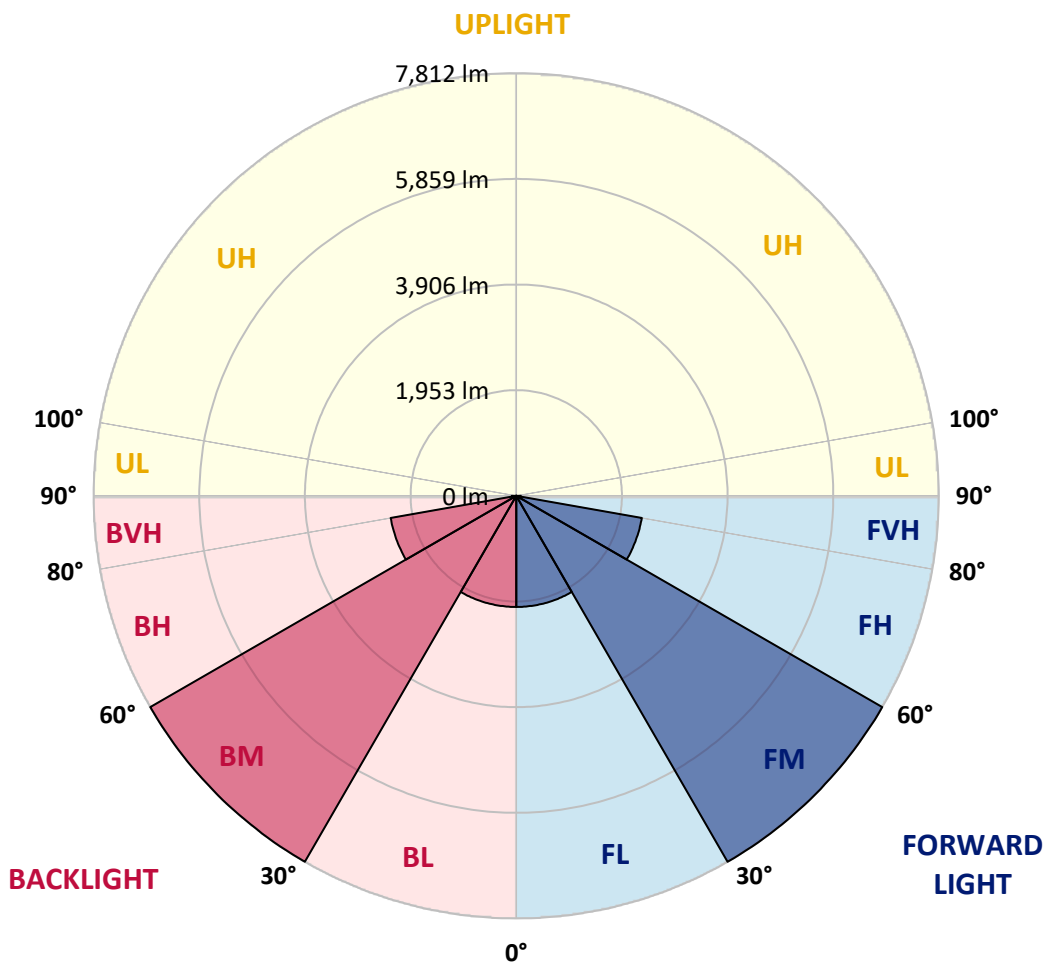


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2053.7	8.3			
FM (30°-60°)	7812.1	31.7			
FH (60°-80°)	2357.3	9.6			G2/5000
FVH (80°-90°)	81.9	0.3			G1/100
BL (0°-30°)	2053.7	8.3	B3/2500		
BM (30°-60°)	7812.1	31.7	B4/8500		
BH (60°-80°)	2357.3	9.6	B3/2500		G2/5000
BVH (80°-90°)	81.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4753.5	4753.5	4753.5	4753.5	4753.5	4753.5	4753.5	4753.5	4753.5	4753.5	4753.5
2.5°	4725.1	4759.8	4734.5	4756.6	4753.5	4744.0	4728.2	4718.8	4706.2	4725.1	4693.5
5°	4706.2	4734.5	4762.9	4725.1	4725.1	4706.2	4696.7	4677.8	4677.8	4674.6	4671.5
7.5°	4737.7	4709.3	4696.7	4703.0	4709.3	4668.3	4696.7	4658.8	4627.3	4649.4	4674.6
10°	4709.3	4721.9	4674.6	4696.7	4662.0	4668.3	4649.4	4674.6	4639.9	4639.9	4639.9
12.5°	4737.7	4703.0	4718.8	4703.0	4693.5	4639.9	4665.2	4636.8	4633.6	4665.2	4636.8
15°	4794.5	4737.7	4725.1	4693.5	4703.0	4703.0	4677.8	4680.9	4646.2	4665.2	4671.5
17.5°	4775.6	4744.0	4734.5	4696.7	4728.2	4737.7	4690.4	4658.8	4680.9	4677.8	4674.6
20°	4791.3	4803.9	4794.5	4800.8	4813.4	4788.2	4744.0	4699.9	4671.5	4712.5	4709.3
22.5°	4892.3	4879.6	4873.3	4867.0	4889.1	4914.3	4854.4	4785.0	4785.0	4813.4	4826.0
25°	4974.3	4971.1	4968.0	4996.4	5072.1	5072.1	4996.4	4908.0	4886.0	4904.9	4889.1
27.5°	5094.1	5128.8	5116.2	5166.7	5277.1	5302.3	5201.4	5097.3	5037.4	5015.3	5043.7
30°	5368.6	5327.6	5337.0	5390.6	5488.4	5570.4	5415.9	5305.5	5223.5	5220.3	5232.9
32.5°	5551.5	5583.0	5611.4	5661.9	5816.5	5879.5	5693.4	5513.7	5463.2	5434.8	5444.3
35°	5917.4	5889.0	5882.7	5933.2	6087.7	6191.8	5958.4	5800.7	5734.5	5797.5	5797.5
37.5°	6264.4	6185.5	6125.6	6191.8	6333.8	6346.4	6147.7	6062.5	6027.8	6100.3	6097.2
40°	6428.4	6422.1	6283.3	6321.1	6510.4	6529.3	6343.2	6242.3	6236.0	6330.6	6425.2
42.5°	6598.7	6538.8	6400.0	6425.2	6541.9	6548.3	6371.6	6343.2	6412.6	6504.1	6510.4
45°	6627.1	6576.6	6488.3	6425.2	6510.4	6529.3	6425.2	6444.2	6450.5	6560.9	6560.9
47.5°	6683.9	6677.6	6627.1	6579.8	6595.6	6579.8	6513.6	6541.9	6636.6	6690.2	6665.0
50°	6841.6	6775.4	6825.8	6784.8	6788.0	6832.1	6772.2	6800.6	6781.7	6734.4	6702.8
52.5°	7188.6	7157.0	7201.2	7229.6	7261.1	7362.1	7292.7	7141.3	6999.3	6873.1	6870.0
55°	7696.4	7718.5	7803.6	7948.7	8071.8	8232.6	7898.3	7535.5	7308.4	7109.7	7122.3
57.5°	8175.9	8160.1	8276.8	8608.0	8967.6	9049.6	8393.5	7876.2	7507.1	7381.0	7327.4
59°	7791.0	7866.7	8131.7	8500.7	9065.4	9185.2	8327.3	7598.6	7207.5	6952.0	6996.2
60°	7185.4	7213.8	7450.4	7964.5	8727.8	8932.9	7882.5	7169.6	6649.2	6500.9	6567.2
62.5°	5078.4	5056.3	5226.6	5646.1	6330.6	6608.2	5860.6	5359.1	5031.1	4867.0	4904.9
65°	2700.0	2801.0	2870.4	3132.2	3494.9	3788.3	3479.2	3261.5	3078.6	2942.9	2939.8
67.5°	1823.2	1810.5	1826.3	1886.2	2009.3	2091.3	2085.0	1974.6	1958.8	1933.6	1962.0
70°	1536.1	1529.8	1501.4	1501.4	1526.7	1545.6	1567.7	1580.3	1605.5	1637.1	1633.9
72.5°	1245.9	1230.2	1211.2	1201.8	1233.3	1242.8	1271.2	1283.8	1305.9	1302.7	1331.1
75°	823.3	823.3	845.3	870.6	880.0	899.0	902.1	940.0	940.0	946.3	921.0
77.5°	460.5	447.9	463.7	488.9	511.0	545.7	580.4	608.8	624.5	618.2	618.2
80°	268.1	268.1	283.9	312.3	340.7	372.2	397.4	419.5	435.3	429.0	416.4
82.5°	167.2	167.2	182.9	211.3	233.4	252.3	287.0	315.4	334.4	328.0	312.3
85°	85.2	85.2	104.1	123.0	151.4	164.0	160.9	148.3	145.1	129.3	129.3
87.5°	22.1	22.1	31.5	34.7	28.4	31.5	31.5	31.5	31.5	31.5	34.7
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)