

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: P458341

Luminaire Tested: **GALN-SA9D-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66846 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

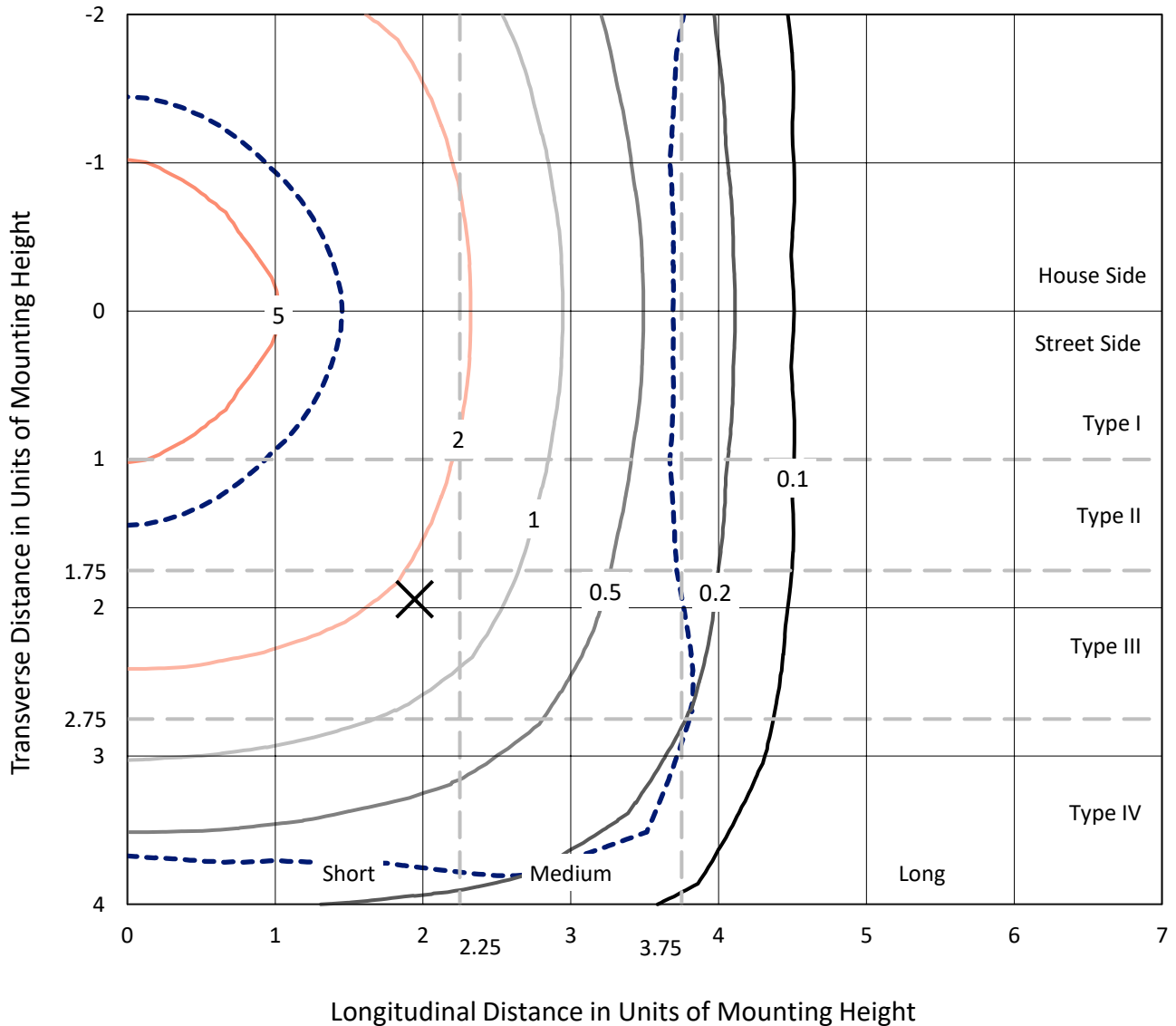
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

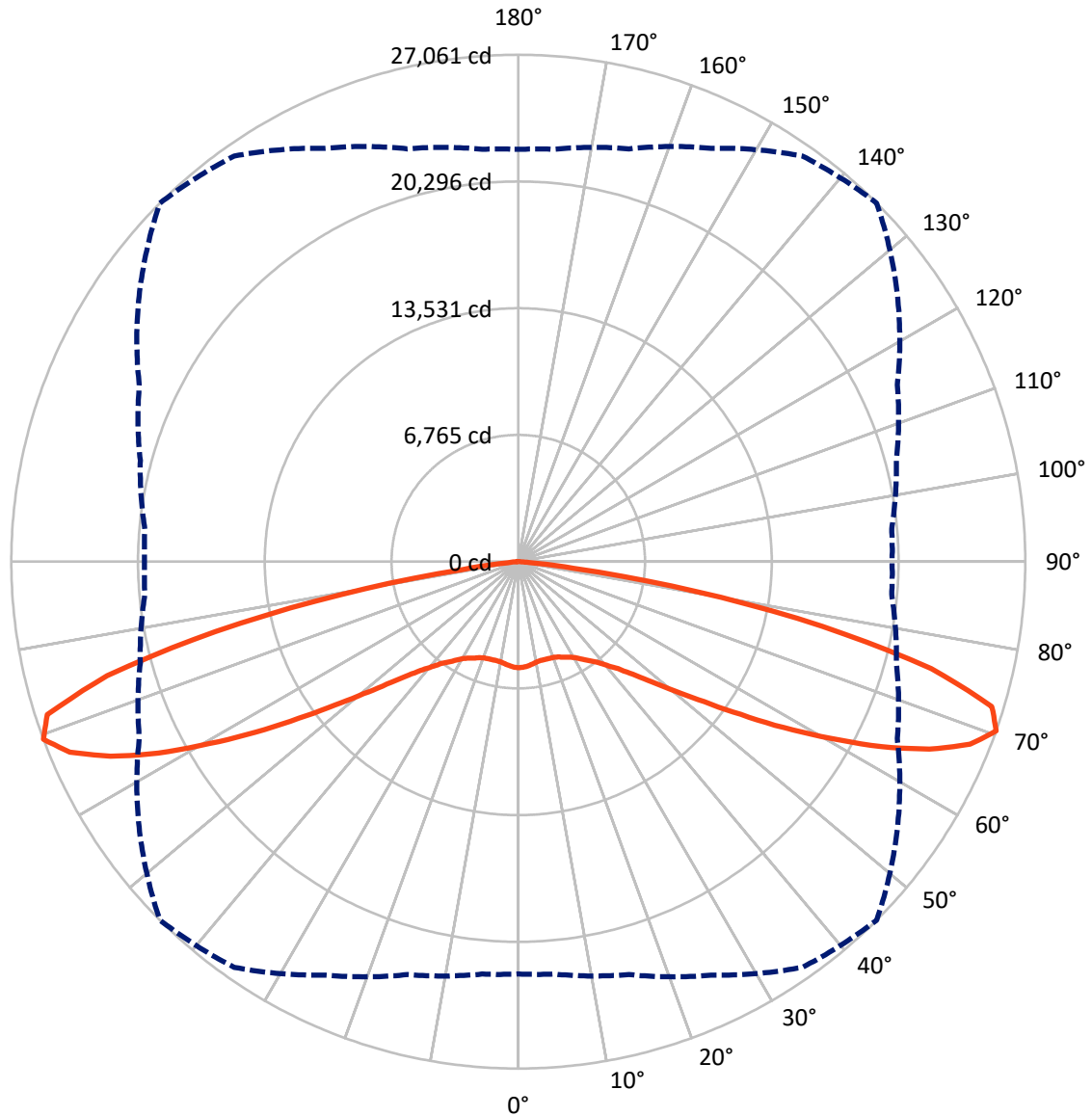
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33423.0	0.0	33423.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	33423.0	0.0	33423.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	66846.0	0.0	66846.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.3	0.8
10°-20°	1549.4	2.3
20°-30°	2639.9	3.9
30°-40°	4091.7	6.1
40°-50°	6887.0	10.3
50°-60°	12530.6	18.7
60°-70°	21213.9	31.7
70°-80°	16420.4	24.6
80°-90°	983.9	1.5
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°	66846.0	100.0
0°-180°	66846.0	100.0



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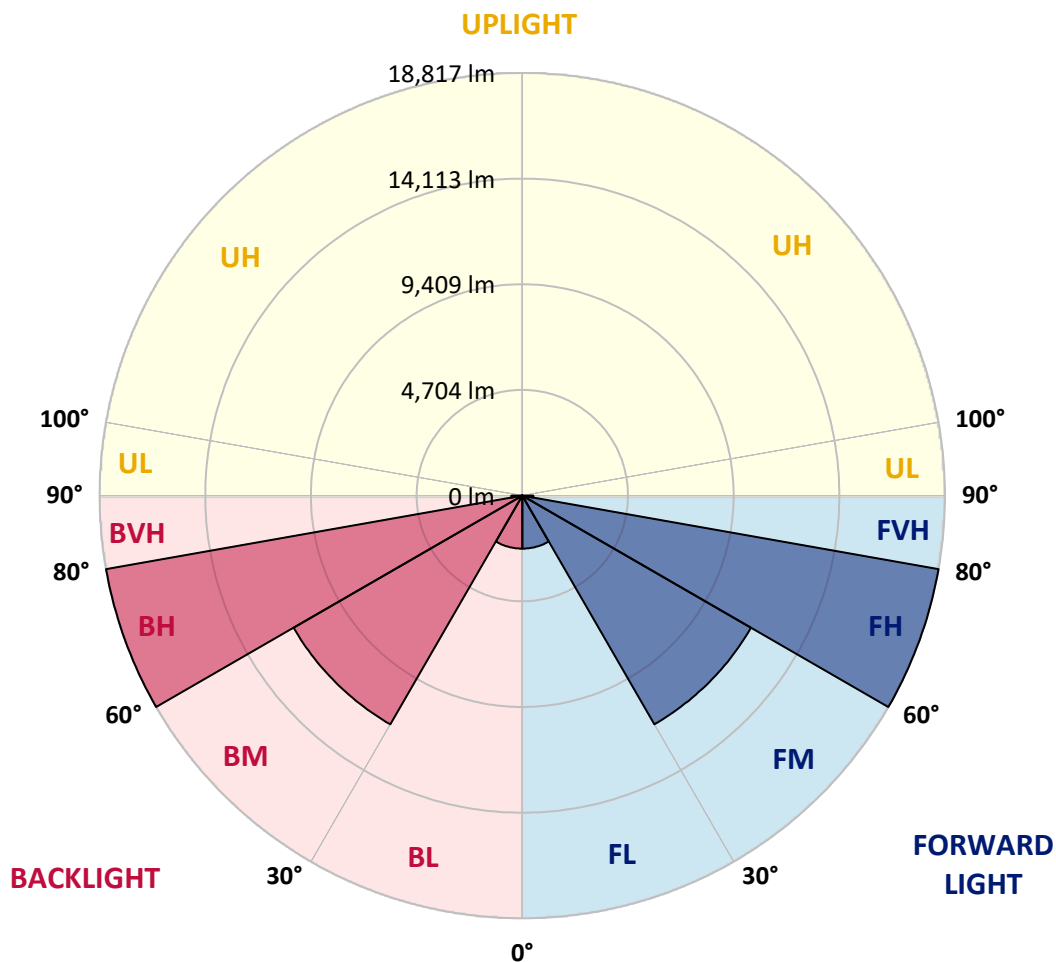
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2359.3	3.5			
FM (30°-60°)	11754.6	17.6			
FH (60°-80°)	18817.1	28.1			G5
FVH (80°-90°)	492.0	0.7			G3/500
BL (0°-30°)	2359.3	3.5	B3/2500		
BM (30°-60°)	11754.6	17.6	B5		
BH (60°-80°)	18817.1	28.1	B5		G5
BVH (80°-90°)	492.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5659.3	5659.3	5659.3	5659.3	5659.3	5659.3	5659.3	5659.3	5659.3	5659.3	5659.3
2.5°	5645.2	5648.7	5648.7	5641.7	5638.1	5638.1	5634.6	5634.6	5645.2	5648.7	5652.3
5°	5595.8	5595.8	5595.8	5592.3	5585.2	5585.2	5578.1	5578.1	5581.7	5592.3	5585.2
7.5°	5528.7	5535.8	5535.8	5521.6	5511.1	5511.1	5507.5	5511.1	5514.6	5525.2	5521.6
10°	5507.5	5511.1	5493.4	5468.7	5451.0	5440.4	5444.0	5451.0	5468.7	5475.7	5479.3
12.5°	5521.6	5521.6	5489.9	5454.6	5422.8	5408.7	5405.1	5429.9	5461.6	5482.8	5489.9
15°	5539.3	5532.2	5493.4	5447.5	5415.7	5412.2	5408.7	5426.3	5472.2	5514.6	5518.1
17.5°	5549.9	5546.4	5496.9	5440.4	5422.8	5422.8	5419.3	5433.4	5482.8	5535.8	5539.3
20°	5585.2	5574.6	5518.1	5458.1	5444.0	5451.0	5440.4	5458.1	5511.1	5574.6	5588.7
22.5°	5655.8	5645.2	5588.7	5528.7	5521.6	5521.6	5518.1	5535.8	5592.3	5659.3	5669.9
25°	5740.5	5729.9	5677.0	5634.6	5641.7	5655.8	5648.7	5652.3	5698.2	5754.7	5772.3
27.5°	5853.5	5835.9	5790.0	5754.7	5775.8	5775.8	5775.8	5772.3	5800.6	5853.5	5871.2
30°	5991.2	5984.1	5934.7	5931.2	5948.8	5931.2	5931.2	5934.7	5938.2	5987.7	6005.3
32.5°	6171.2	6157.1	6132.4	6125.4	6174.8	6188.9	6139.5	6093.6	6118.3	6167.7	6178.3
35°	6467.8	6446.6	6411.3	6372.5	6411.3	6478.4	6372.5	6337.2	6400.7	6467.8	6474.9
37.5°	6870.3	6859.7	6803.2	6732.6	6729.1	6799.7	6690.2	6686.7	6806.7	6887.9	6898.5
40°	7375.1	7385.7	7315.1	7248.0	7212.7	7269.2	7184.5	7216.3	7332.8	7424.6	7417.5
42.5°	8084.8	8045.9	7936.5	7872.9	7834.1	7812.9	7791.7	7841.2	7971.8	8070.6	8148.3
45°	8914.4	8900.3	8762.6	8684.9	8600.2	8568.4	8561.4	8649.6	8808.5	8928.5	8939.1
47.5°	9853.5	9821.7	9733.5	9652.3	9620.5	9581.7	9546.4	9613.5	9772.3	9857.1	9881.8
50°	10820.9	10827.9	10827.9	10813.8	10845.6	10852.6	10757.3	10782.0	10870.3	10863.2	10856.2
52.5°	11925.9	11964.7	12148.3	12166.0	12317.8	12420.2	12247.2	12144.8	12113.0	11922.4	11936.5
55°	13225.1	13260.4	13535.8	13811.2	14220.7	14393.7	14030.1	13712.3	13486.4	13196.9	13211.0
57.5°	14845.6	14863.3	15124.5	15654.1	16303.7	16709.7	16070.7	15442.2	14983.3	14707.9	14598.5
60°	16589.6	16607.3	16988.6	17634.7	18644.4	19138.6	18347.8	17320.5	16741.5	16321.3	16349.6
62.5°	18683.2	18753.8	19096.3	19986.0	21211.0	21765.3	20716.8	19343.4	18559.6	18037.1	18058.3
65°	20925.1	21045.1	21419.3	22397.3	23527.0	24123.7	22838.6	21253.4	20279.0	19640.0	19707.0
67.5°	22379.6	22485.5	23025.7	24106.0	25514.7	26008.9	24349.6	22503.2	21285.2	20522.6	20381.4
70°	22008.9	22097.2	22817.4	24349.6	26436.1	27061.0	24709.7	22319.6	20886.2	20007.1	19950.6
72.5°	19428.1	19244.6	20296.6	22496.1	25384.0	26432.6	23576.4	20384.9	18580.8	17677.0	17571.1
75°	12875.6	13274.5	14827.9	17419.3	21475.8	22775.0	20123.6	16367.2	14097.1	13345.2	13228.6
77.5°	4303.6	4610.8	5991.2	9874.7	14640.8	16593.2	14662.0	10704.4	7572.8	6100.6	6128.9
80°	1140.3	1126.2	1458.1	2714.9	6326.6	9609.9	7364.5	3625.8	1984.1	1436.9	1362.8
82.5°	409.5	459.0	589.6	752.0	1677.0	2986.8	2107.7	1016.8	744.9	550.8	533.1
85°	180.1	176.5	254.2	300.1	420.1	557.8	494.3	430.7	377.8	250.7	233.0
87.5°	38.8	38.8	60.0	45.9	74.1	74.1	91.8	109.4	113.0	74.1	60.0
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)