

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: P457416

Luminaire Tested: **GALN-SA8D-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58696 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 III - Short
BUG Rating: B5 - U0 - G5

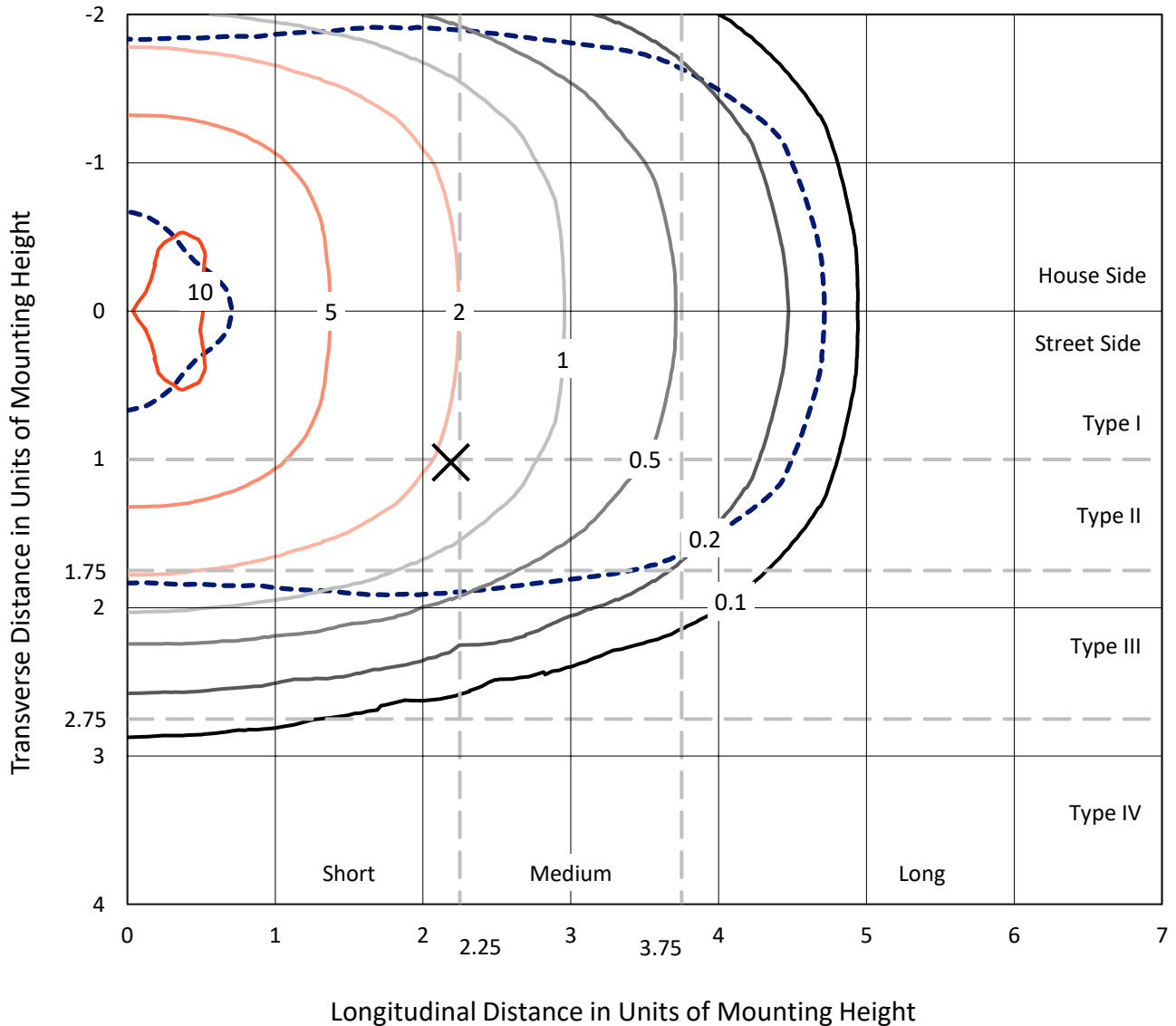
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

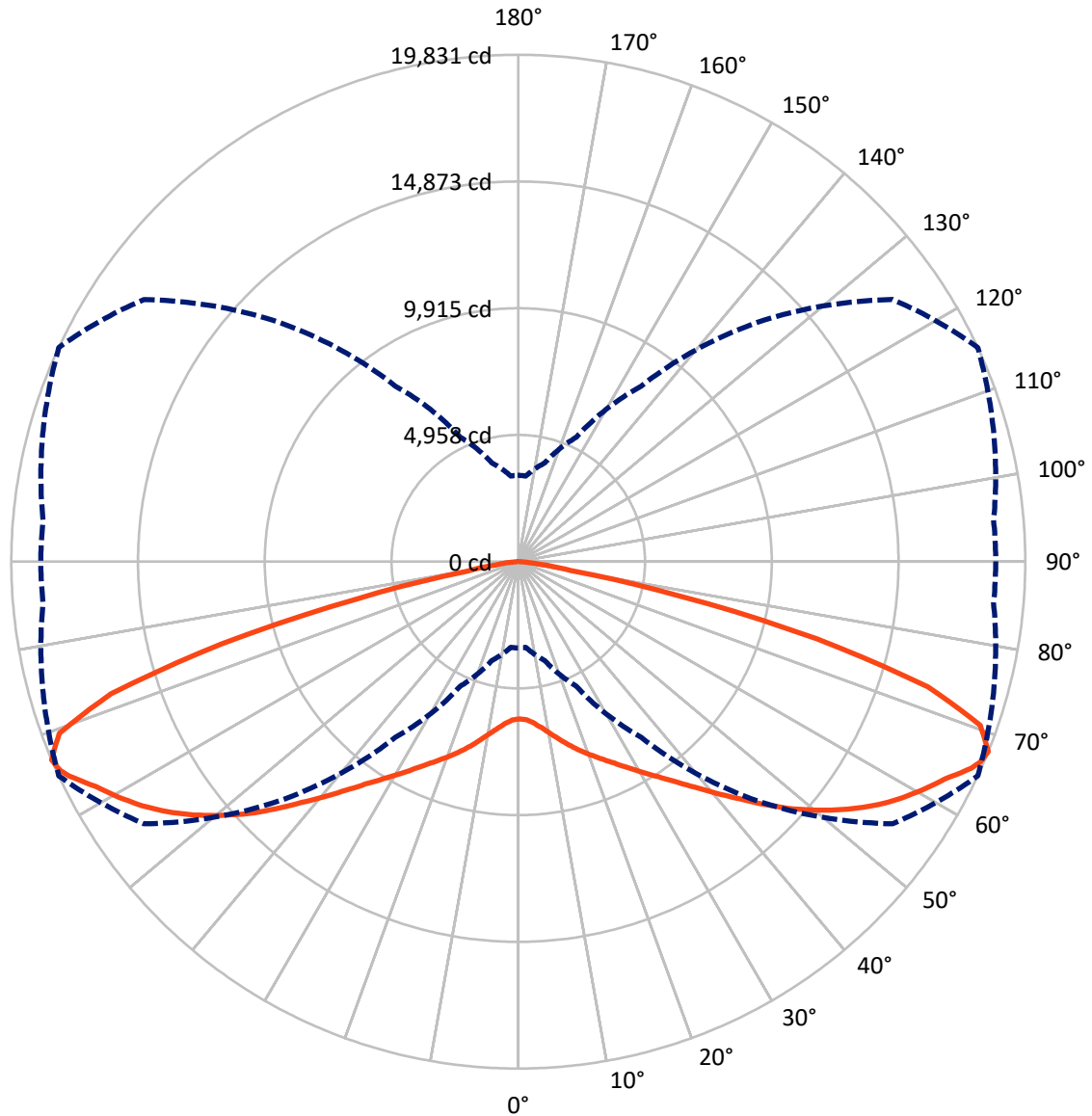
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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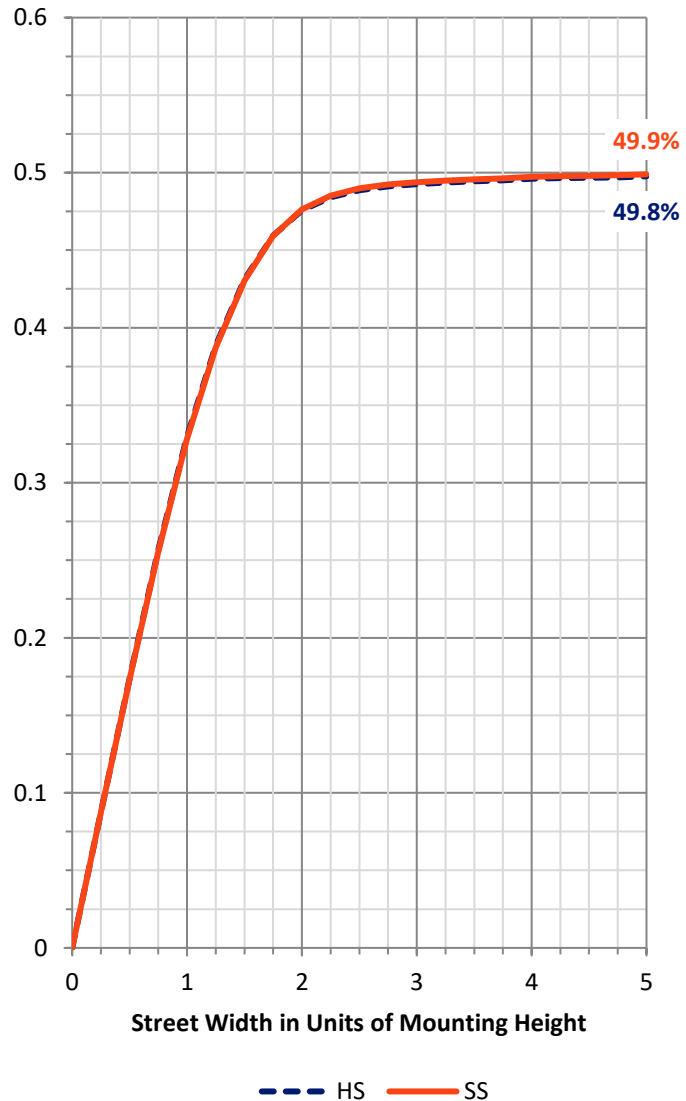
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	29348.0	0.0	29348.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29348.0	0.0	29348.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	58696.0	0.0	58696.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.4	1.0
10°-20°	2029.4	3.5
20°-30°	3969.6	6.8
30°-40°	6751.8	11.5
40°-50°	10686.1	18.2
50°-60°	14169.6	24.1
60°-70°	13366.3	22.8
70°-80°	6607.6	11.3
80°-90°	509.2	0.9
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°	58696.0	100.0
0°-180°	58696.0	100.0



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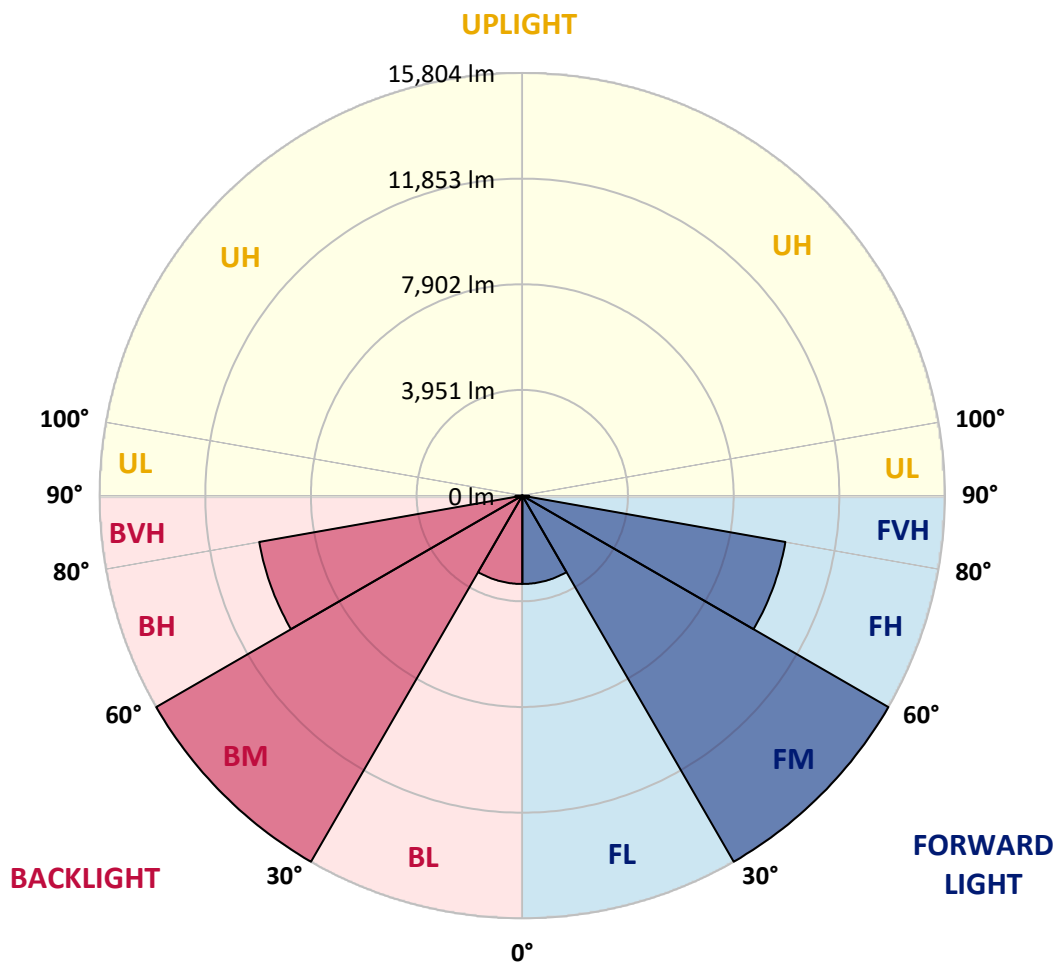
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3302.7	5.6			
FM	(30°-60°)	15803.7	26.9			
FH	(60°-80°)	9986.9	17.0			G4/12000
FVH	(80°-90°)	254.6	0.4			G3/500
BL	(0°-30°)	3302.7	5.6	B4/5000		
BM	(30°-60°)	15803.7	26.9	B5		
BH	(60°-80°)	9986.9	17.0	B5		G5
BVH	(80°-90°)	254.6	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6147.9	6147.9	6147.9	6147.9	6147.9	6147.9	6147.9	6147.9	6147.9	6147.9	6147.9
2.5°	6116.4	6122.7	6129.0	6138.5	6151.0	6169.9	6182.5	6191.9	6217.1	6220.2	6217.1
5°	6094.4	6100.7	6116.4	6144.7	6185.6	6242.2	6286.3	6339.7	6380.6	6408.9	6402.6
7.5°	6091.3	6103.9	6129.0	6188.8	6267.4	6364.9	6465.5	6556.7	6635.3	6698.2	6688.8
10°	6141.6	6157.3	6198.2	6286.3	6408.9	6550.4	6691.9	6827.1	6940.4	7022.1	7050.4
12.5°	6226.5	6239.1	6314.6	6446.6	6622.7	6798.8	6959.2	7125.9	7283.1	7421.5	7421.5
15°	6374.3	6396.3	6490.7	6682.5	6899.5	7103.9	7267.4	7443.5	7613.3	7770.6	7817.7
17.5°	6578.7	6610.2	6751.7	6997.0	7273.7	7462.4	7616.5	7761.1	7908.9	8059.9	8081.9
20°	6858.6	6890.0	7078.7	7374.3	7701.4	7927.8	8031.6	8066.2	8138.5	8283.1	8302.0
22.5°	7239.1	7270.5	7481.2	7814.6	8179.4	8424.7	8468.7	8386.9	8368.0	8481.3	8493.8
25°	7669.9	7698.2	7940.4	8298.9	8676.2	8943.5	8930.9	8729.7	8616.5	8685.7	8704.5
27.5°	8154.2	8195.1	8440.4	8811.4	9220.3	9456.1	9418.4	9125.9	8883.8	8871.2	8877.5
30°	8773.7	8817.7	9050.4	9405.8	9808.3	10025.3	9946.7	9553.6	9179.4	9053.6	9053.6
32.5°	9427.8	9537.9	9773.7	10144.8	10459.3	10616.5	10497.0	10025.3	9528.4	9352.3	9342.9
35°	10280.0	10339.8	10572.5	10934.1	11170.0	11292.6	11063.1	10556.8	9984.4	9776.9	9748.6
37.5°	11113.4	11163.7	11434.1	11780.0	12066.2	12059.9	11748.6	11188.8	10550.5	10317.8	10298.9
40°	11965.6	12019.0	12327.2	12644.8	12931.0	12905.8	12528.5	11902.7	11223.4	10962.4	11012.7
42.5°	12704.6	12764.3	13113.4	13566.2	13824.1	13817.8	13380.7	12676.3	11968.7	11736.0	11780.0
45°	13377.6	13431.0	13836.7	14355.6	14732.9	14780.1	14302.1	13556.8	12830.4	12531.6	12544.2
47.5°	13852.4	13953.0	14377.6	14971.9	15484.5	15651.2	15182.6	14453.0	13616.6	13305.2	13324.1
50°	14214.0	14276.9	14739.2	15415.3	16063.1	16409.0	16031.7	15283.2	14402.7	14072.5	14116.6
52.5°	14258.1	14333.5	14836.7	15616.6	16446.8	16971.9	16786.4	16094.6	15204.6	14865.0	14959.3
55°	13899.6	13943.6	14544.2	15490.8	16597.7	17390.2	17437.4	16849.3	15968.8	15710.9	15773.8
57.5°	12877.5	12990.8	13751.8	14902.7	16390.2	17613.5	17924.8	17534.8	16742.4	16487.7	16588.3
60°	11201.4	11314.6	12078.8	13537.9	15607.1	17509.7	18327.3	18141.8	17443.7	17239.2	17292.7
62.5°	8776.9	8767.4	9714.0	11503.3	14050.5	17000.2	18626.1	18726.7	18135.5	17877.6	17959.4
65°	5688.8	5717.1	6632.2	8559.9	11701.4	15704.6	18692.1	19472.0	18814.7	18424.8	18484.5
66°	4575.5	4660.4	5437.2	7213.9	10503.3	14855.6	18494.0	19692.1	19022.3	18550.6	18578.9
67.5°	3377.4	3361.7	4000.1	5371.1	8386.9	13242.3	17874.5	19830.5	19258.1	18663.8	18676.4
70°	1927.7	1924.6	2151.0	2949.7	4930.9	9324.0	15066.3	19166.9	19736.1	19072.6	19038.0
72.5°	1408.8	1399.4	1430.8	1629.0	2405.7	4707.6	10393.2	16751.8	19490.8	19006.6	18909.1
75°	1182.4	1176.1	1169.8	1195.0	1349.1	2132.1	5515.8	12050.5	16912.2	17839.9	17739.3
77.5°	965.4	965.4	968.6	962.3	968.6	1122.7	2286.2	6459.2	10298.9	11497.0	11776.9
80°	754.7	751.6	805.0	783.0	732.7	720.1	1012.6	2078.6	3418.3	3399.4	2805.1
82.5°	556.6	518.9	613.2	597.5	540.9	459.1	591.2	886.8	1141.5	742.1	550.3
85°	352.2	349.1	434.0	396.2	330.2	217.0	283.0	380.5	471.7	286.2	232.7
87.5°	62.9	59.7	138.4	100.6	100.6	62.9	78.6	103.8	154.1	106.9	78.6
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)