

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: P534253

Luminaire Tested: **GALN-SA9D-730-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38331 lumens
Efficiency: N/A
Efficacy: 69.4 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

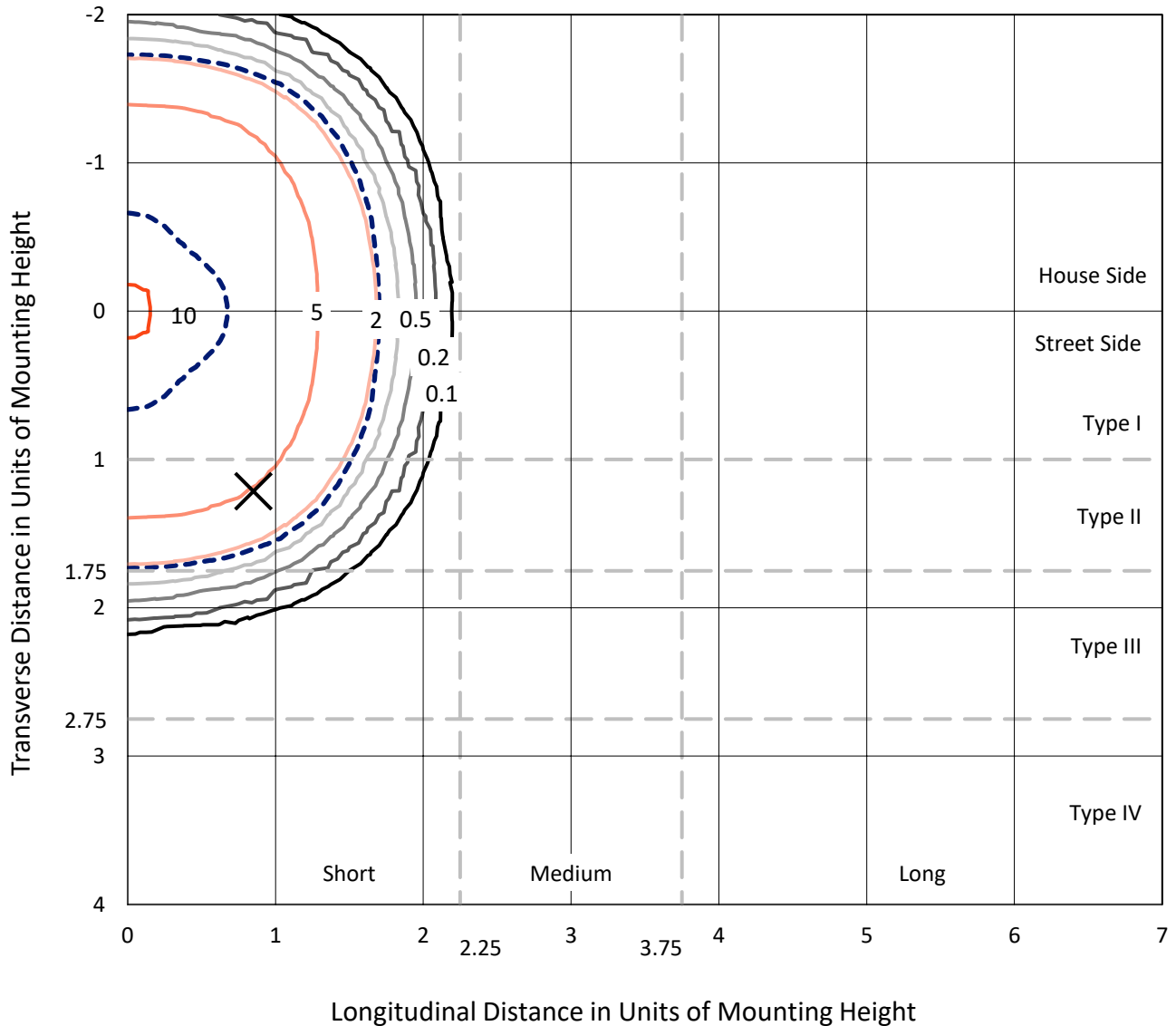
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

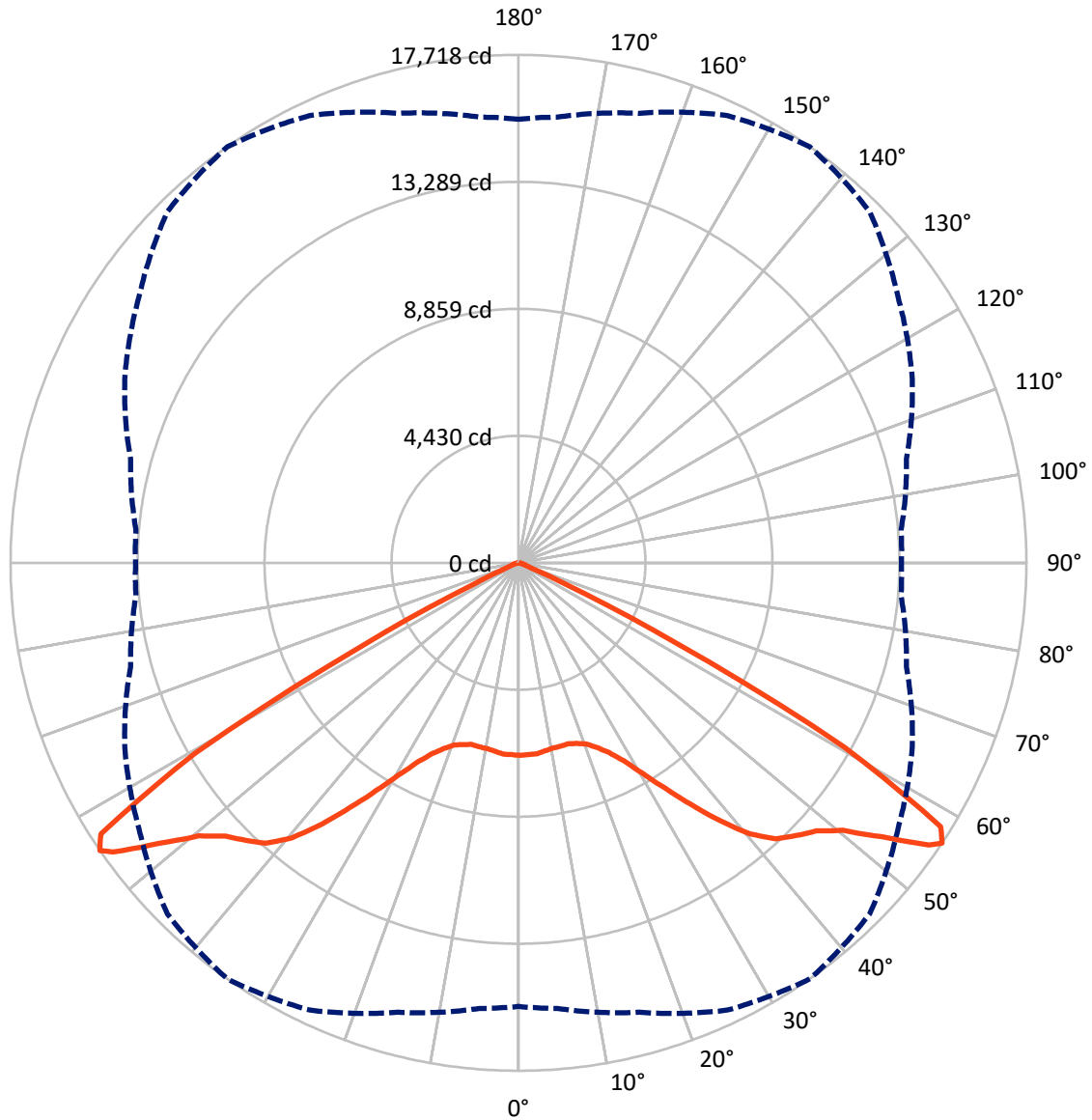
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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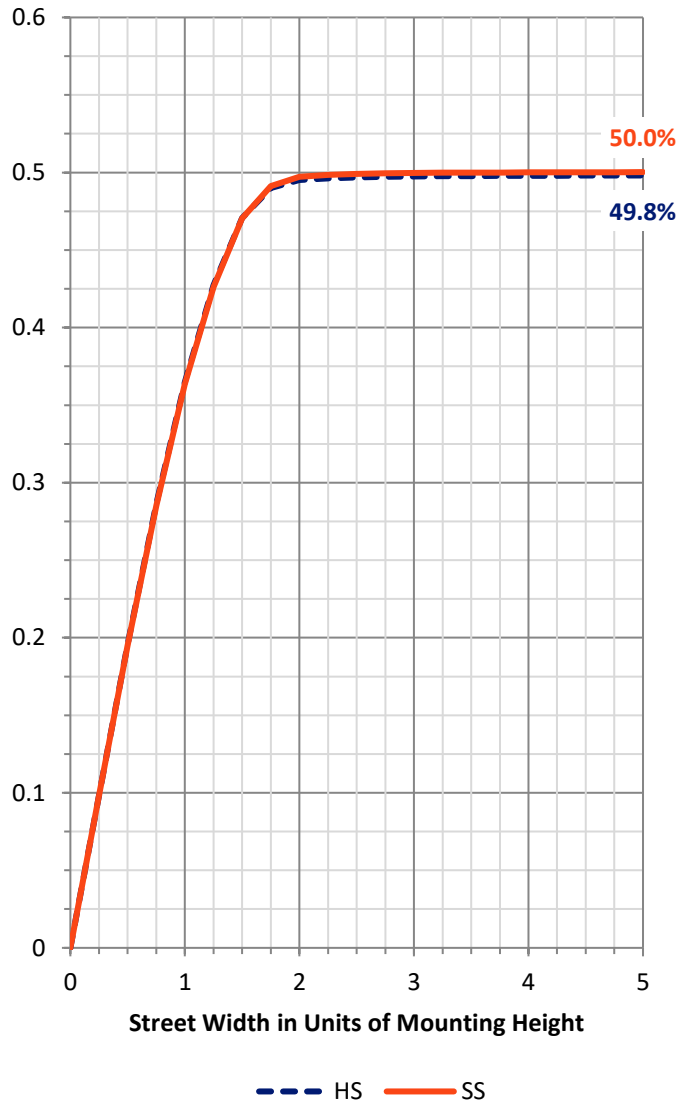
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19165.5	0.0	19165.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19165.5	0.0	19165.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38331.0	0.0	38331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.2	1.6
10°-20°	1842.9	4.8
20°-30°	3337.3	8.7
30°-40°	6188.5	16.1
40°-50°	10158.0	26.5
50°-60°	13086.5	34.1
60°-70°	2884.1	7.5
70°-80°	167.3	0.4
80°-90°	35.2	0.1
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°	38331.0	100.0
0°-180°	38331.0	100.0

Coefficient of Utilization

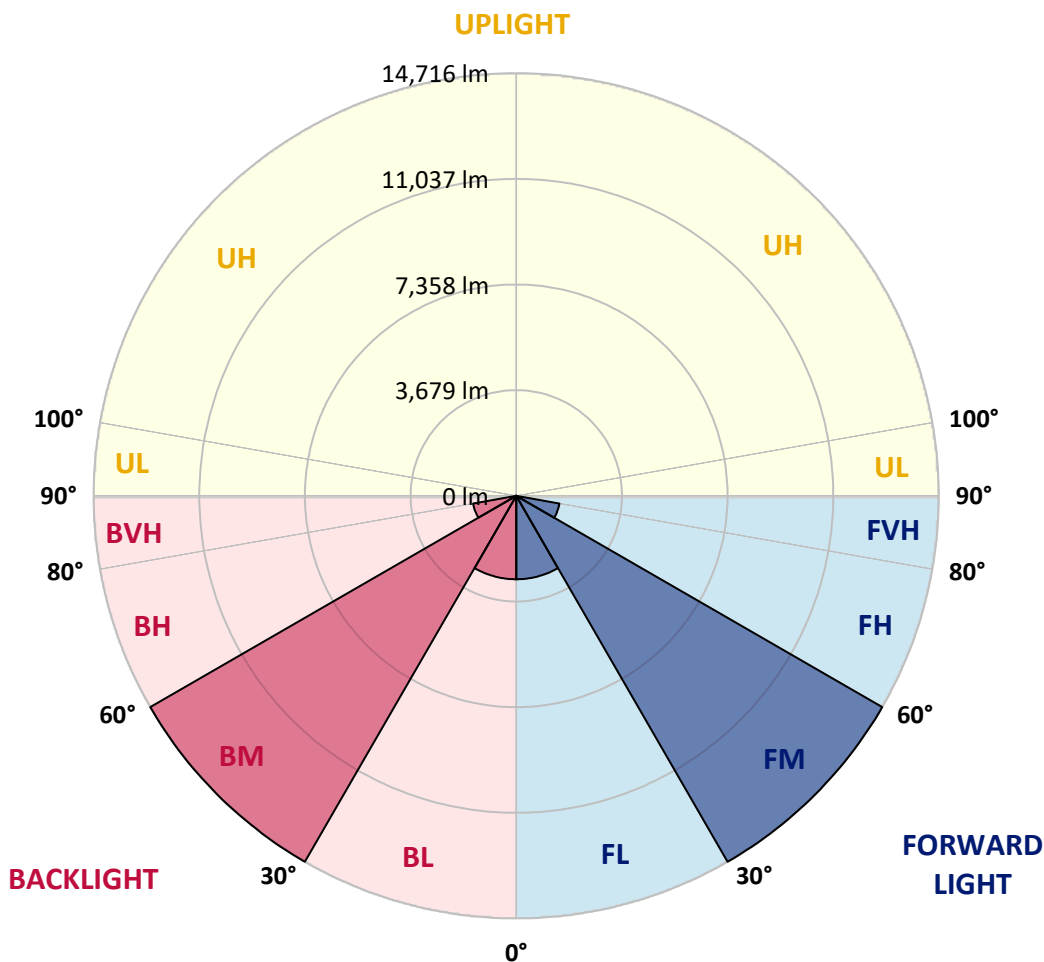


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2905.7	7.6			
FM (30°-60°)	14716.5	38.4			
FH (60°-80°)	1525.7	4.0			G1/1800
FVH (80°-90°)	17.6	0.0			G1/100
BL (0°-30°)	2905.7	7.6	B4/5000		
BM (30°-60°)	14716.5	38.4	B5		
BH (60°-80°)	1525.7	4.0	B3/2500		G1/1800
BVH (80°-90°)	17.6	0.0			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°	6716.4	6716.4	6716.4	6716.4	6716.4	6716.4	6716.4	6716.4	6716.4	6716.4	6716.4
2.5°	6730.3	6730.3	6737.3	6744.2	6695.6	6674.7	6681.7	6667.8	6660.9	6681.7	6681.7
5°	6709.5	6709.5	6688.6	6695.6	6695.6	6633.1	6633.1	6647.0	6647.0	6605.3	6591.4
7.5°	6653.9	6640.0	6612.2	6647.0	6626.1	6626.1	6577.5	6542.8	6528.9	6556.7	6528.9
10°	6535.8	6542.8	6570.6	6584.4	6570.6	6612.2	6528.9	6480.3	6431.6	6410.8	6410.8
12.5°	6480.3	6521.9	6480.3	6515.0	6563.6	6528.9	6480.3	6445.5	6376.1	6348.3	6348.3
15°	6473.3	6501.1	6515.0	6563.6	6542.8	6556.7	6459.4	6417.8	6313.6	6265.0	6244.1
17.5°	6466.4	6501.1	6521.9	6612.2	6626.1	6633.1	6556.7	6431.6	6341.4	6292.7	6244.1
20°	6542.8	6556.7	6598.3	6688.6	6744.2	6841.4	6702.5	6570.6	6376.1	6320.5	6299.7
22.5°	6640.0	6709.5	6751.1	6848.4	6994.2	7077.6	6897.0	6730.3	6528.9	6459.4	6376.1
25°	6952.6	6938.7	7008.1	7209.6	7327.6	7390.1	7244.3	7001.2	6737.3	6653.9	6667.8
27.5°	7341.5	7355.4	7417.9	7640.2	7813.8	7911.1	7737.4	7417.9	7160.9	7022.0	7008.1
30°	7848.6	7834.7	7904.1	8202.8	8515.3	8661.2	8355.6	7980.5	7730.5	7549.9	7591.6
32.5°	8383.4	8390.3	8584.8	8855.7	9362.7	9647.5	9154.3	8695.9	8320.9	8195.8	8133.3
35°	9175.2	9209.9	9362.7	9779.4	10342.0	10710.1	10168.4	9619.7	9189.1	8959.9	8987.6
37.5°	10154.5	10119.8	10376.8	10828.2	11418.6	11689.5	11231.1	10606.0	10168.4	10015.6	10112.8
40°	11196.3	11231.1	11363.0	11772.8	12432.7	12613.2	11932.6	11592.2	11210.2	11133.8	11251.9
42.5°	12238.2	12217.3	12314.6	12682.7	13162.0	13036.9	12634.1	12432.7	12161.8	12009.0	12168.7
45°	13002.2	12967.5	13148.1	13398.1	13571.7	13335.6	13155.0	13085.6	12946.6	12779.9	12925.8
47.5°	13745.4	13717.6	13891.2	13960.7	13974.6	13662.0	13696.8	13821.8	13474.5	13127.2	13293.9
50°	14377.4	14328.8	14544.1	14696.9	14662.2	14162.1	14287.1	14162.1	13620.4	13210.6	13148.1
52.5°	15433.2	15454.0	15683.2	15961.0	15877.7	15461.0	15280.4	14710.8	14016.3	13648.1	13432.8
55°	16099.9	15995.8	16391.7	17273.8	17371.0	16940.4	16141.6	15301.2	14259.4	13807.9	13752.3
56°	15474.8	15606.8	16231.9	17218.2	17718.3	17322.4	16162.5	15155.3	14009.3	13398.1	13356.4
57.5°	13884.3	13814.8	14662.2	16009.7	17371.0	17204.3	15592.9	14113.5	12779.9	12092.3	12009.0
60°	8640.4	8841.8	9585.0	11251.9	13071.7	13155.0	11557.5	10286.5	8730.6	8119.4	8265.3
62.5°	3382.5	3208.9	3674.2	4917.5	6167.7	6445.5	5841.3	4855.0	3986.8	3382.5	3340.8
65°	784.9	764.0	861.3	1187.7	1660.0	1923.9	1826.7	1312.7	965.4	916.8	847.4
67.5°	444.5	444.5	423.7	423.7	465.4	493.1	472.3	465.4	486.2	507.0	500.1
70°	312.6	305.6	291.7	298.7	284.8	284.8	305.6	340.3	368.1	368.1	375.1
72.5°	187.5	187.5	187.5	208.4	208.4	208.4	229.2	257.0	263.9	257.0	250.0
75°	83.3	83.3	97.2	118.1	132.0	138.9	159.7	173.6	187.5	173.6	159.7
77.5°	20.8	20.8	34.7	48.6	62.5	76.4	104.2	125.0	132.0	125.0	104.2
80°	6.9	6.9	13.9	34.7	62.5	76.4	104.2	111.1	118.1	104.2	83.3
82.5°	6.9	6.9	13.9	34.7	48.6	62.5	83.3	97.2	104.2	90.3	83.3
85°	0.0	6.9	13.9	27.8	41.7	55.6	55.6	41.7	34.7	20.8	27.8
87.5°	0.0	0.0	6.9	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)