

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: P534255

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
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-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43876 lumens
Efficiency: N/A
Efficacy: 79.5 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

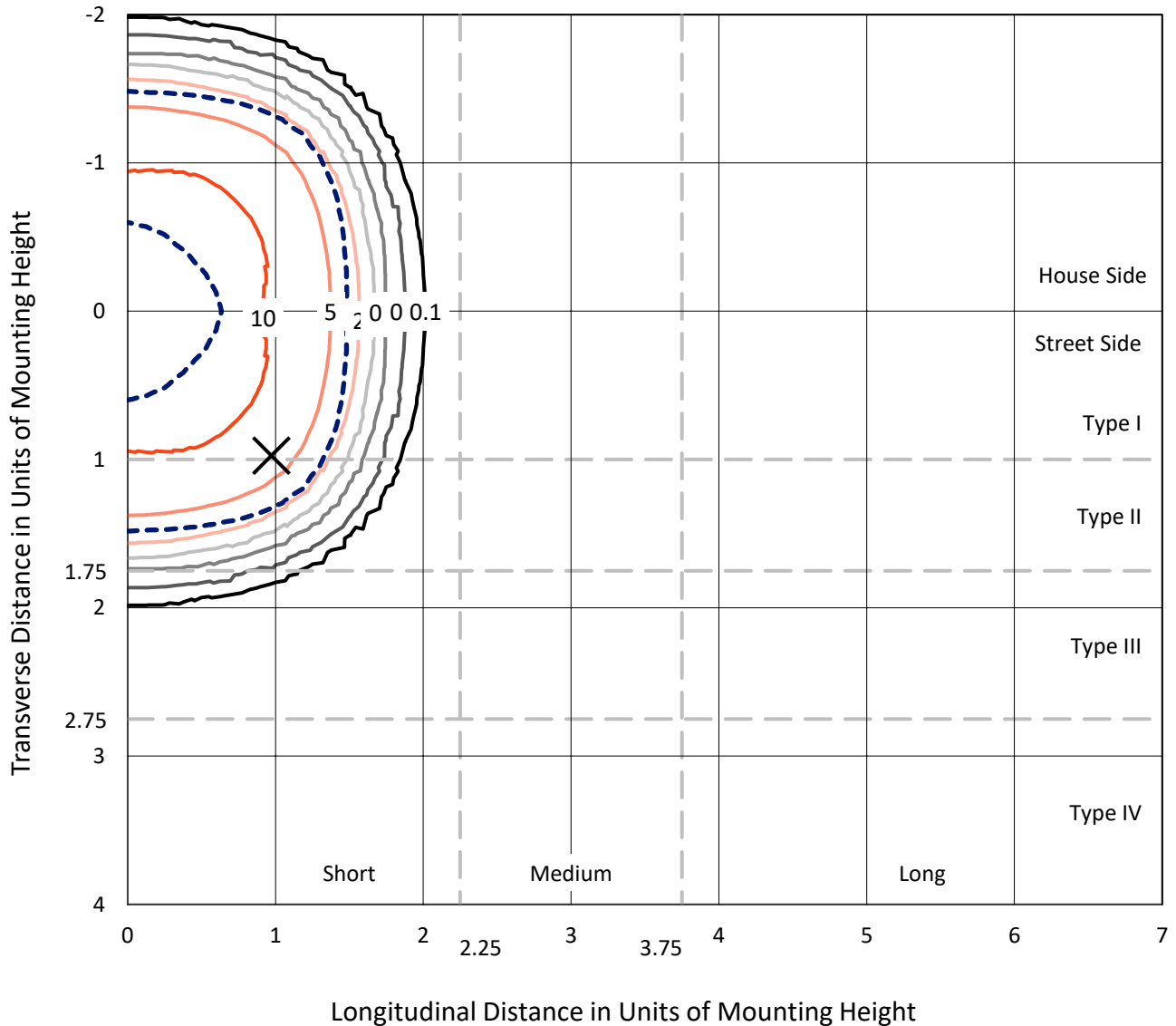




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Iso-Footcandle Lines of Horizontal Illumination

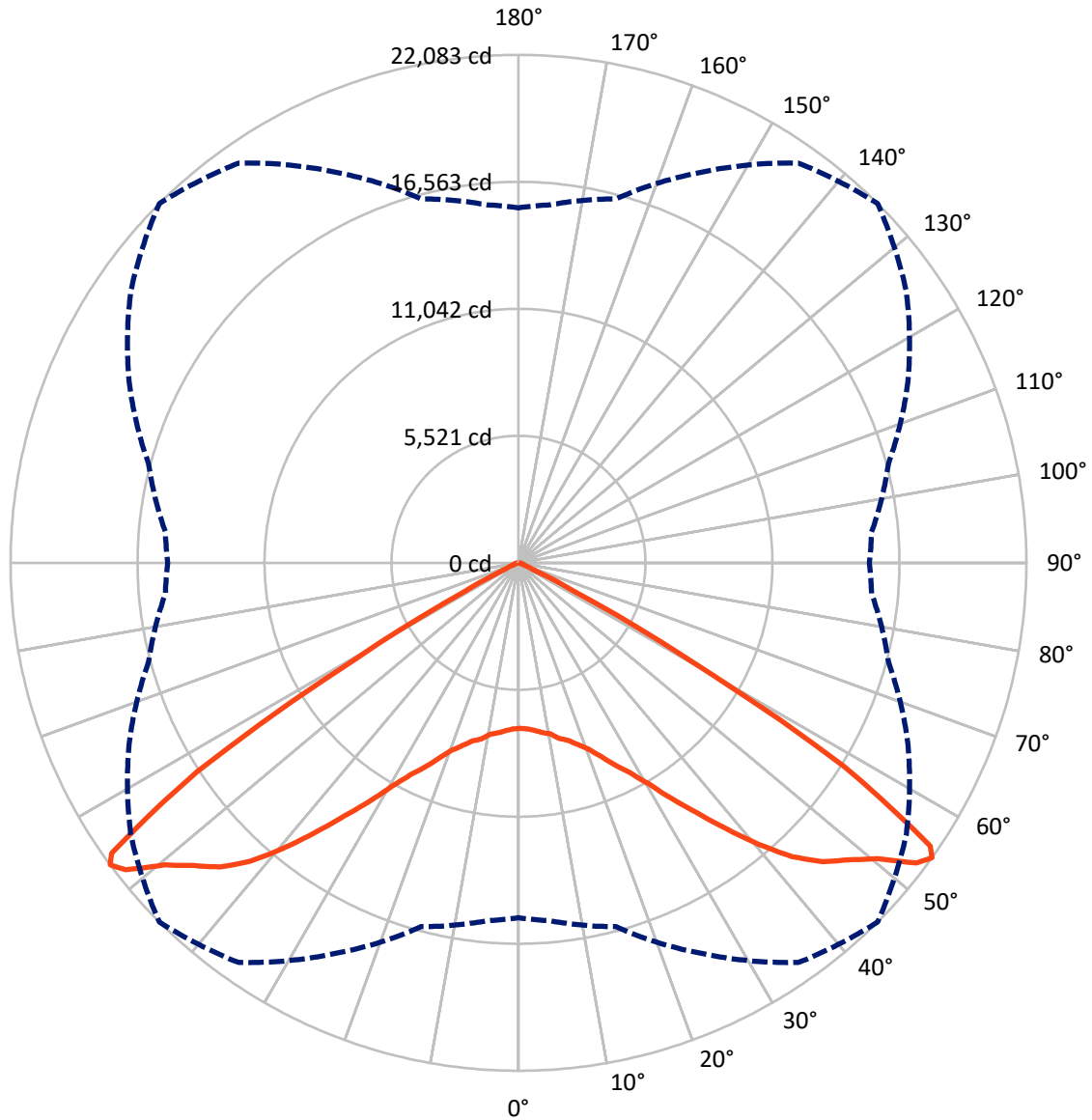
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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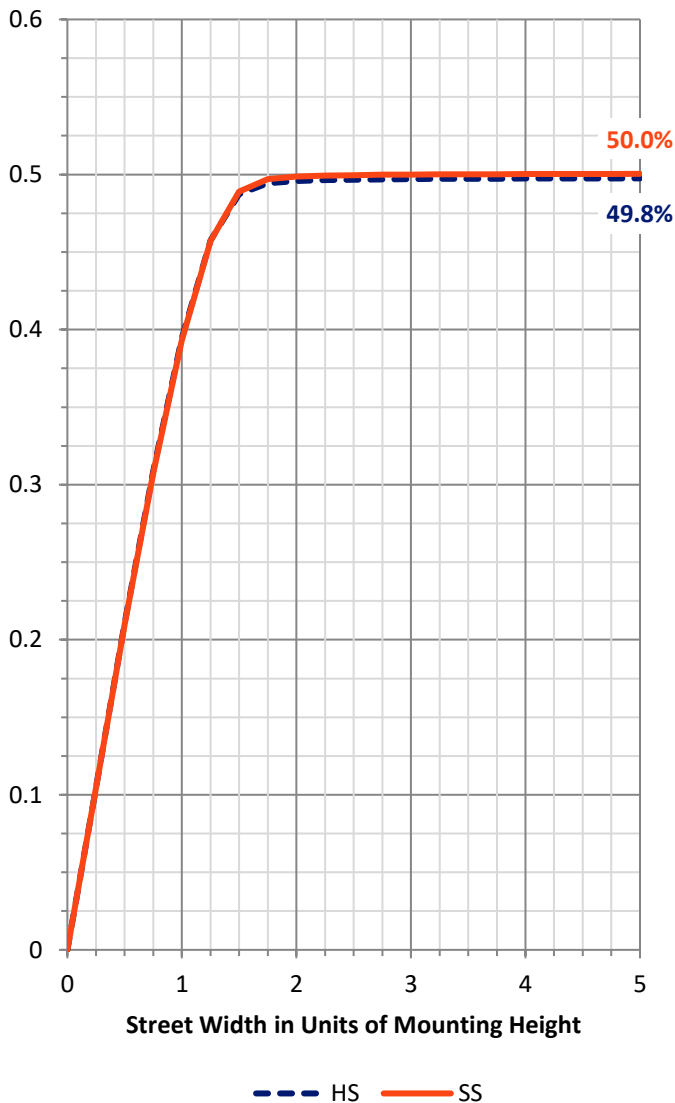
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21938.0	0.0	21938.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21938.0	0.0	21938.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	43876.0	0.0	43876.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.1	1.6
10°-20°	2280.3	5.2
20°-30°	4469.3	10.2
30°-40°	8036.7	18.3
40°-50°	13757.2	31.4
50°-60°	13311.4	30.3
60°-70°	1139.5	2.6
70°-80°	135.1	0.3
80°-90°	42.4	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°	43876.0	100.0
0°-180°	43876.0	100.0

Coefficient of Utilization



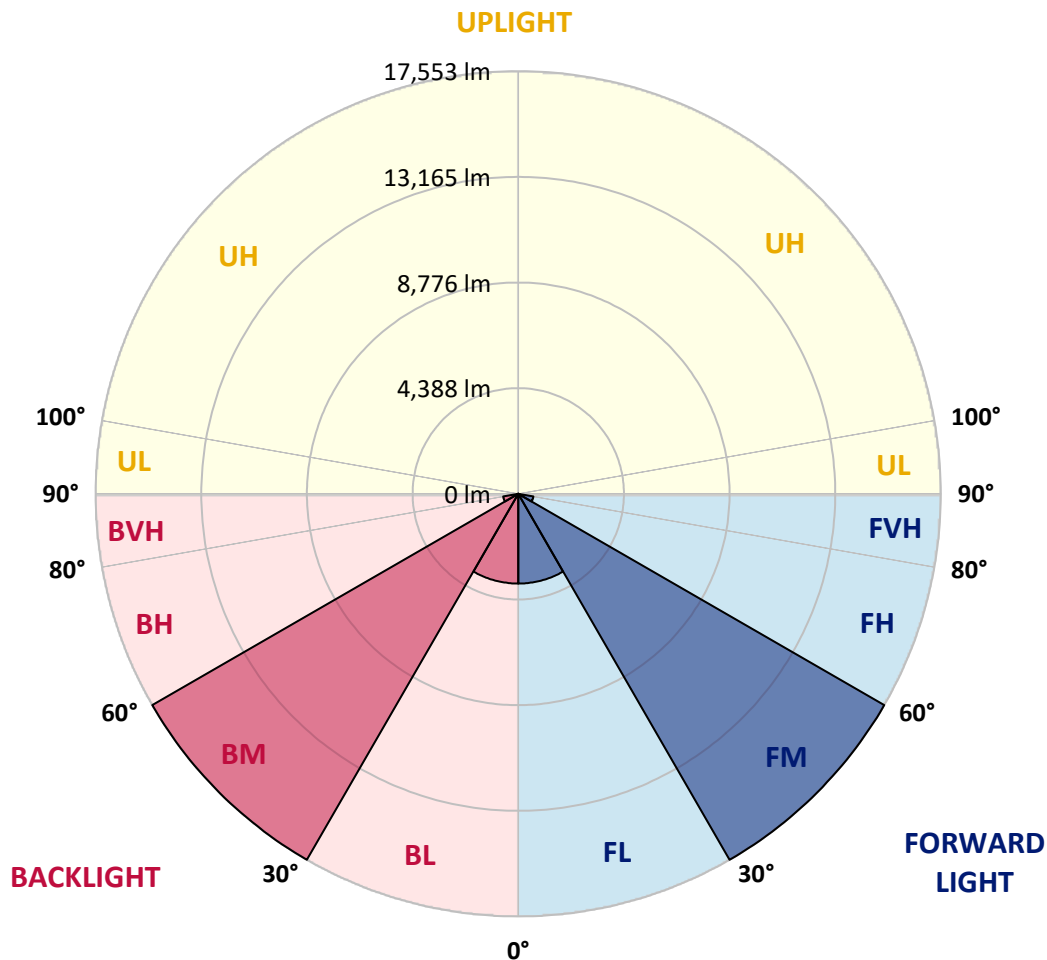
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3726.9	8.5			
FM (30°-60°)	17552.7	40.0			
FH (60°-80°)	637.3	1.5			G0/660
FVH (80°-90°)	21.2	0.0			G1/100
BL (0°-30°)	3726.9	8.5	B4/5000		
BM (30°-60°)	17552.7	40.0	B5		
BH (60°-80°)	637.3	1.5	B2/1000		G0/660
BVH (80°-90°)	21.2	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°	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3	7194.3
2.5°	7229.1	7270.8	7243.0	7263.8	7263.8	7229.1	7249.9	7166.5	7222.1	7180.4	7187.3
5°	7340.3	7333.3	7333.3	7340.3	7312.5	7326.4	7298.6	7270.8	7249.9	7222.1	7305.5
7.5°	7479.3	7479.3	7430.6	7444.5	7430.6	7451.5	7395.9	7340.3	7319.4	7298.6	7284.7
10°	7611.4	7597.5	7576.6	7639.2	7590.5	7562.7	7534.9	7500.1	7423.7	7395.9	7368.1
12.5°	7806.0	7799.0	7771.2	7833.8	7806.0	7833.8	7729.5	7639.2	7625.3	7534.9	7583.6
15°	8035.4	8097.9	8049.3	8049.3	8035.4	8000.6	7958.9	7917.2	7792.1	7757.3	7764.3
17.5°	8334.3	8313.4	8320.4	8320.4	8389.9	8299.5	8216.1	8111.8	8049.3	8028.4	7958.9
20°	8619.3	8647.1	8640.1	8688.8	8730.5	8633.2	8542.8	8528.9	8355.1	8382.9	8285.6
22.5°	9119.7	9098.9	9133.6	9168.4	9140.6	9126.7	9043.3	8939.0	8786.1	8716.6	8702.7
25°	9648.0	9613.2	9550.7	9634.1	9675.8	9738.4	9578.5	9522.9	9286.6	9182.3	9189.2
27.5°	10099.8	10148.5	10218.0	10252.7	10357.0	10336.2	10224.9	10044.2	9863.5	9745.3	9668.9
30°	10718.5	10746.3	10864.4	10913.1	11093.8	11142.5	10968.7	10760.2	10440.4	10287.5	10197.1
32.5°	11288.4	11483.1	11476.1	11719.4	12011.3	12212.9	11900.1	11580.4	11260.6	11079.9	10920.0
35°	12212.9	12178.2	12379.8	12636.9	13109.6	13339.0	12998.4	12630.0	12143.4	11851.5	11726.4
37.5°	13074.9	13088.8	13359.8	13770.0	14312.1	14666.6	14367.7	13763.0	13262.5	12887.2	12713.4
40°	14326.0	14353.8	14631.9	15097.6	15709.3	16091.6	15744.0	15132.4	14465.1	14173.1	14173.1
42.5°	15792.7	15910.9	16091.6	16494.8	17043.9	17467.9	17155.1	16675.5	16001.2	15625.9	15681.5
45°	17301.1	17356.7	17474.8	18072.6	18329.8	18538.3	18246.4	18024.0	17572.2	17113.4	17036.9
47.5°	18712.1	18733.0	19080.5	19268.2	19469.8	19296.0	19483.7	19191.7	18684.3	18239.5	18149.1
50°	19337.7	19303.0	19796.5	20366.5	20519.4	20213.5	20053.7	19859.0	19087.5	18552.3	18315.9
52.5°	17516.5	17718.1	18635.7	20220.5	21416.1	21673.3	20741.8	19845.1	18406.3	17363.6	17203.8
54°	15431.2	15618.9	16376.6	18726.0	21214.5	22083.4	20581.9	18677.4	16647.7	15410.4	15250.5
55°	13366.8	13158.3	14534.6	16932.7	20269.1	21721.9	19949.4	17169.0	14847.4	13714.3	13491.9
57.5°	7236.0	7270.8	8431.6	10697.6	14242.6	16654.6	14708.3	11615.1	8772.2	7500.1	7388.9
60°	2293.8	2349.4	2856.9	4323.5	6805.0	8125.7	6964.9	4664.1	3225.3	2585.8	2481.5
62.5°	716.0	743.8	813.3	1209.5	1862.9	2662.2	2085.3	1251.2	931.4	855.0	868.9
65°	437.9	437.9	444.9	472.7	556.1	646.4	625.6	549.1	528.3	514.4	507.4
67.5°	285.0	278.0	291.9	312.8	326.7	333.6	354.5	375.4	368.4	354.5	354.5
70°	173.8	166.8	180.7	208.5	215.5	229.4	250.2	278.0	271.1	257.2	264.1
72.5°	97.3	97.3	104.3	125.1	146.0	159.9	180.7	201.6	208.5	201.6	201.6
75°	34.8	41.7	55.6	76.5	90.4	111.2	132.1	152.9	173.8	159.9	152.9
77.5°	13.9	13.9	27.8	48.7	69.5	90.4	125.1	146.0	159.9	146.0	132.1
80°	7.0	7.0	20.9	41.7	62.6	83.4	104.3	125.1	132.1	118.2	104.3
82.5°	7.0	7.0	20.9	41.7	62.6	76.5	111.2	125.1	139.0	125.1	104.3
85°	0.0	7.0	20.9	41.7	55.6	62.6	62.6	41.7	34.8	20.9	20.9
87.5°	0.0	0.0	7.0	0.0	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)