

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: P457891

Luminaire Tested: **GALN-SA9B-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457891
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46896 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

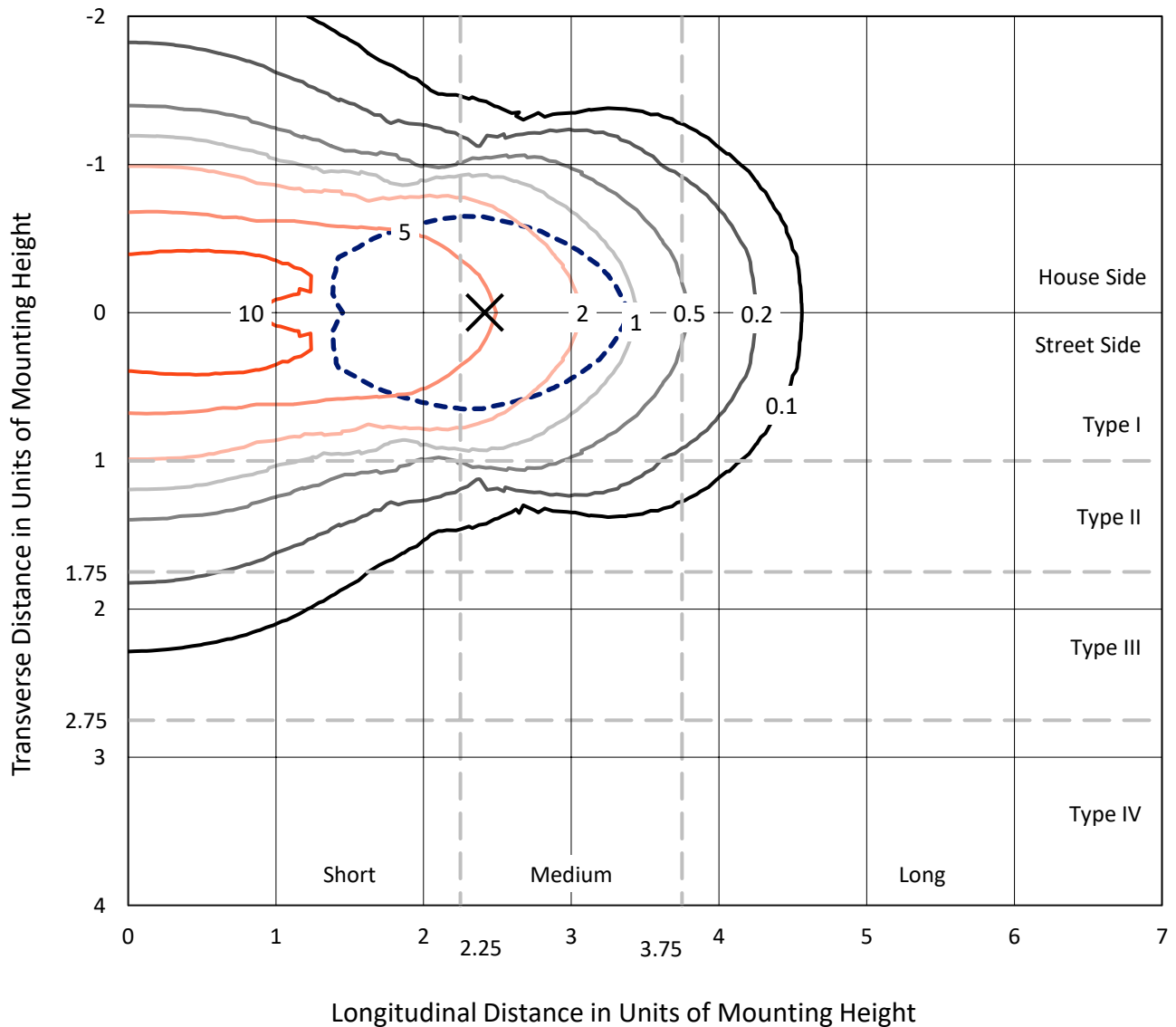
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

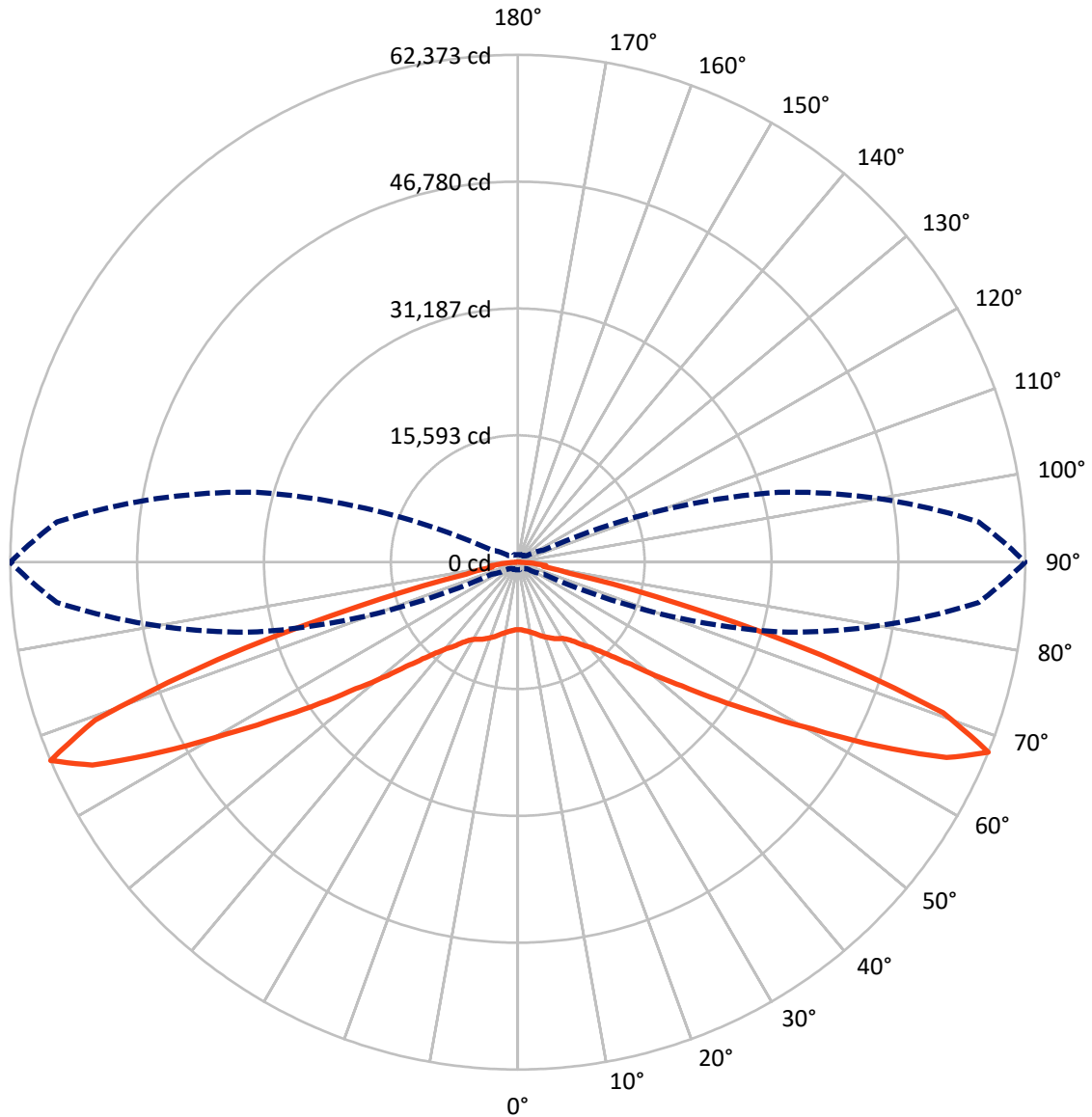
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23448.0	0.0	23448.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23448.0	0.0	23448.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	46896.0	0.0	46896.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.7	1.8
10°-20°	2648.2	5.6
20°-30°	4432.5	9.5
30°-40°	6004.8	12.8
40°-50°	7606.1	16.2
50°-60°	9501.9	20.3
60°-70°	11169.1	23.8
70°-80°	4272.7	9.1
80°-90°	432.9	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°	46896.0	100.0
0°-180°	46896.0	100.0

Coefficient of Utilization



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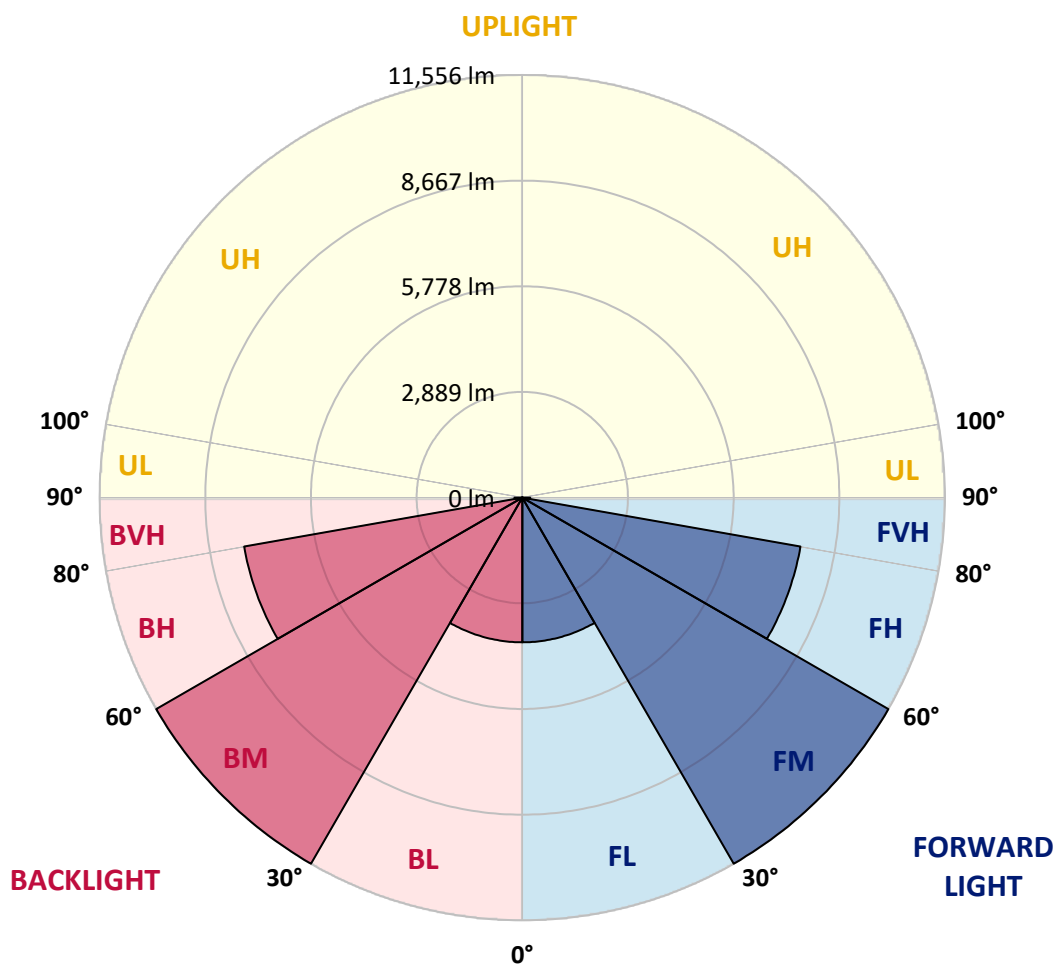
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3954.2	8.4			
FM (30°-60°)	11556.4	24.6			
FH (60°-80°)	7720.9	16.5			G4/12000
FVH (80°-90°)	216.4	0.5			G2/225
BL (0°-30°)	3954.2	8.4	B4/5000		
BM (30°-60°)	11556.4	24.6	B5		
BH (60°-80°)	7720.9	16.5	B5		G5
BVH (80°-90°)	216.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8302.1	8302.1	8302.1	8302.1	8302.1	8302.1	8302.1	8302.1	8302.1	8302.1	8302.1
2.5°	8408.5	8403.3	8405.9	8403.3	8411.1	8405.9	8374.8	8348.8	8328.0	8330.6	8322.8
5°	8587.7	8590.3	8592.9	8579.9	8598.1	8587.7	8538.4	8496.8	8455.3	8439.7	8434.5
7.5°	8735.7	8748.7	8756.5	8769.5	8800.6	8800.6	8774.7	8714.9	8624.1	8572.1	8569.5
10°	8883.7	8894.1	8917.5	8959.0	9011.0	9060.3	9049.9	8969.4	8852.6	8764.3	8743.5
12.5°	8935.7	8948.7	9026.6	9146.0	9262.9	9359.0	9359.0	9294.0	9143.4	9008.4	8969.4
15°	8753.9	8777.3	8917.5	9172.0	9478.4	9688.8	9735.5	9644.6	9483.6	9275.9	9229.1
17.5°	8392.9	8450.1	8655.2	9031.8	9540.7	9977.0	10112.0	10067.9	9860.1	9595.3	9540.7
20°	8006.0	8068.3	8286.5	8785.1	9488.8	10145.8	10537.9	10548.3	10291.2	9906.9	9826.4
22.5°	7580.1	7626.9	7907.3	8491.6	9333.0	10184.8	10904.1	11083.3	10735.3	10218.5	10104.2
25°	7102.3	7154.3	7447.7	8078.7	9039.6	10140.6	11239.1	11633.8	11200.1	10550.9	10405.5
27.5°	6645.3	6666.1	6980.3	7621.7	8652.6	10026.3	11485.8	12140.2	11714.3	10826.2	10641.8
30°	6206.4	6255.8	6533.6	7167.2	8208.6	9803.0	11698.7	12716.7	12267.4	11114.4	10878.1
32.5°	5741.6	5801.3	6102.5	6744.0	7764.5	9468.0	11828.5	13347.7	13038.7	11581.8	11330.0
35°	5294.9	5333.9	5637.7	6260.9	7330.8	9078.5	11851.9	14059.2	14033.2	12290.8	11955.8
37.5°	4837.9	4895.0	5201.4	5798.7	6871.2	8665.6	11735.1	14814.9	15233.0	13275.0	12914.0
40°	4399.0	4448.4	4749.6	5352.1	6349.2	8161.8	11457.2	15505.6	16632.7	14287.7	13776.2
42.5°	3921.2	3934.2	4264.0	4876.8	5837.7	7577.5	11057.3	16121.1	18193.4	15645.9	15009.7
45°	3378.5	3412.2	3718.7	4321.1	5250.8	6923.1	10514.5	16630.1	20172.1	17528.6	16661.2
47.5°	2835.7	2864.3	3144.8	3739.4	4609.4	6172.7	9678.4	17076.7	22202.9	19920.3	18782.8
50°	2306.0	2321.6	2550.1	3077.2	3887.4	5383.2	8642.2	17219.6	24498.5	23306.5	21854.9
52.5°	1823.0	1846.3	2020.3	2433.2	3116.2	4451.0	7523.0	16866.4	27178.4	27321.2	25274.9
55°	1477.6	1485.4	1615.2	1919.1	2435.8	3474.6	6172.7	15882.2	30060.9	32465.5	29855.7
57.5°	1272.4	1277.6	1350.3	1519.1	1874.9	2620.2	4788.5	14020.3	32649.9	38492.7	35137.6
60°	1155.6	1158.2	1199.7	1298.4	1485.4	2009.9	3430.4	11392.3	35205.2	45200.3	41702.4
62.5°	1082.9	1082.9	1111.4	1166.0	1256.9	1542.5	2485.2	8219.0	36955.4	52006.6	49794.1
65°	1012.8	1012.8	1033.5	1072.5	1121.8	1262.1	1836.0	5359.8	36911.3	56964.0	57932.6
67.5°	932.3	932.3	947.8	986.8	1015.4	1085.5	1417.9	3510.9	33156.3	56854.9	62373.2
70°	836.2	836.2	857.0	890.7	914.1	958.2	1119.2	2402.1	24358.2	48545.1	55470.8
72.5°	740.1	742.7	755.7	789.4	807.6	833.6	929.7	1682.7	14942.1	33055.0	38786.2
75°	633.6	638.8	651.8	685.6	701.1	711.5	784.2	1199.7	7559.4	17822.0	20291.6
77.5°	511.6	522.0	529.8	566.1	576.5	592.1	646.6	867.3	3318.7	6403.8	6460.9
80°	373.9	386.9	410.3	444.1	451.8	462.2	493.4	615.4	1503.6	2924.0	3175.9
82.5°	275.3	293.4	264.9	309.0	309.0	296.0	348.0	412.9	690.8	2895.5	3464.2
85°	150.6	153.2	137.6	158.4	168.8	166.2	184.4	202.6	335.0	1932.0	1991.8
87.5°	36.4	39.0	41.5	49.3	59.7	59.7	64.9	57.1	109.1	625.8	358.4
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)