

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: P458315

Luminaire Tested: **GALN-SA9D-727-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458315
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-SA9D-727-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60512 lumens
Efficiency: N/A
Efficacy: 109.6 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

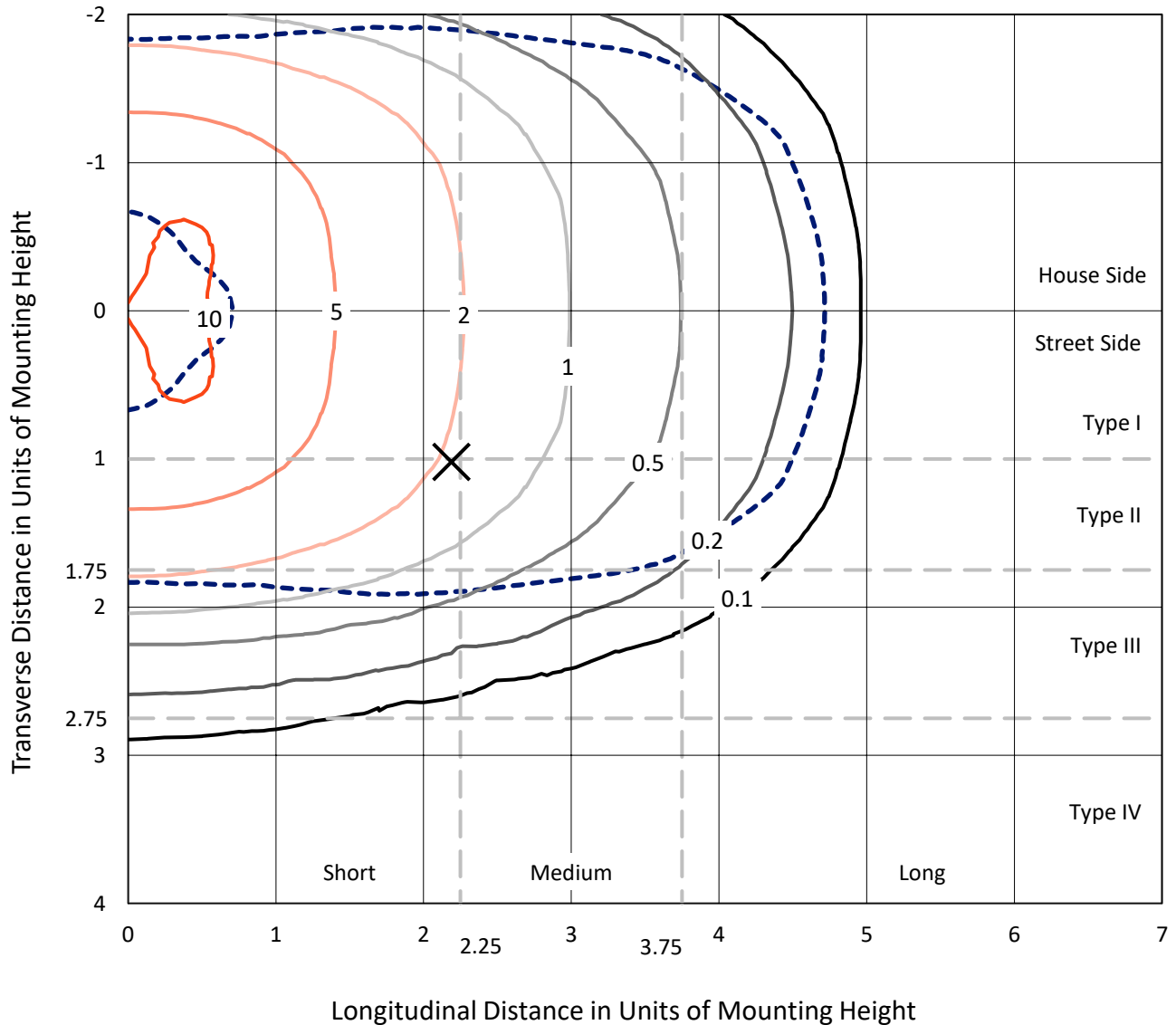
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

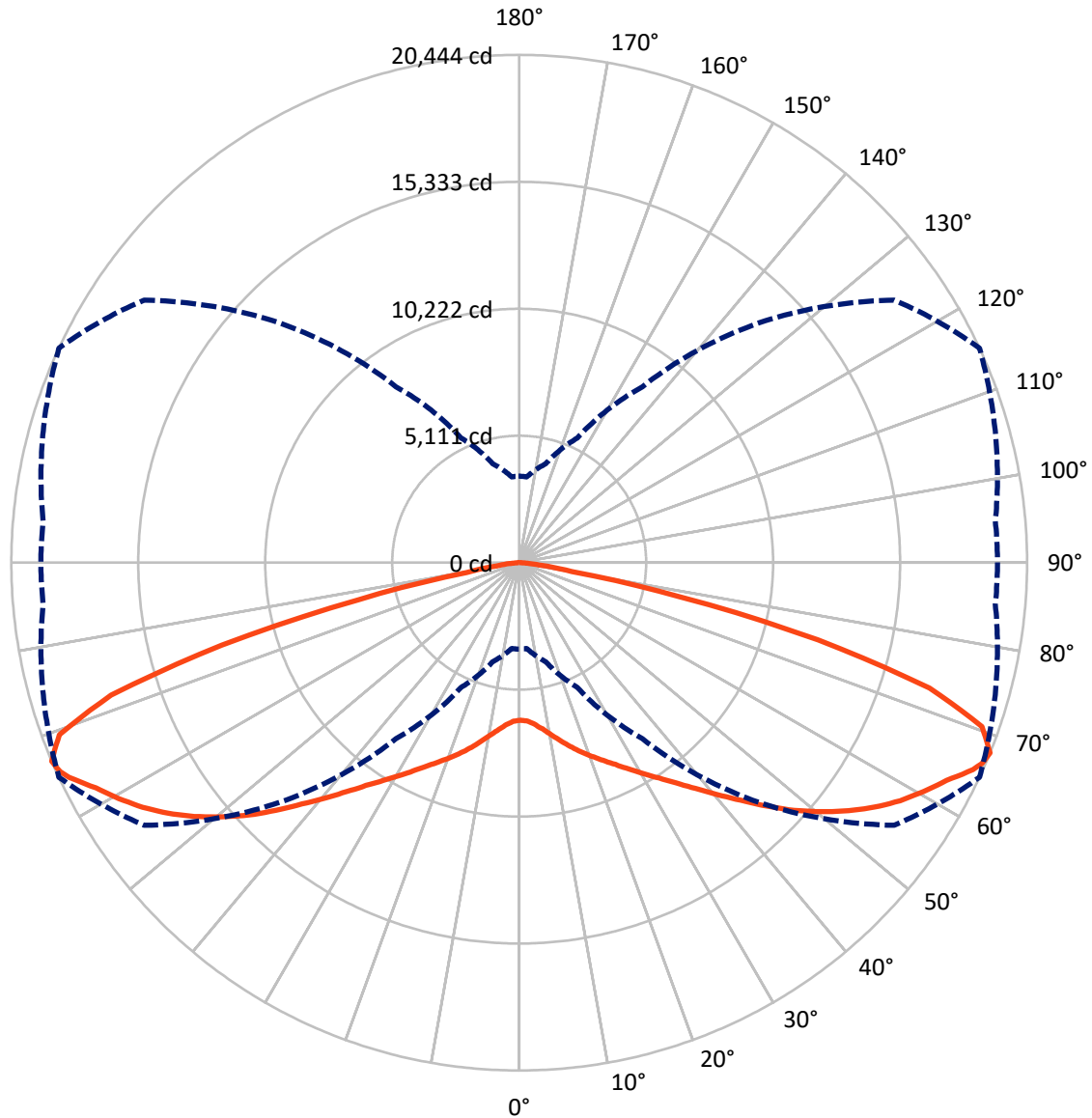
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	30256.0	0.0	30256.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30256.0	0.0	30256.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	60512.0	0.0	60512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	625.1	1.0
10°-20°	2092.2	3.5
20°-30°	4092.5	6.8
30°-40°	6960.7	11.5
40°-50°	11016.7	18.2
50°-60°	14608.0	24.1
60°-70°	13779.8	22.8
70°-80°	6812.1	11.3
80°-90°	525.0	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°	60512.0	100.0
0°-180°	60512.0	100.0

Coefficient of Utilization

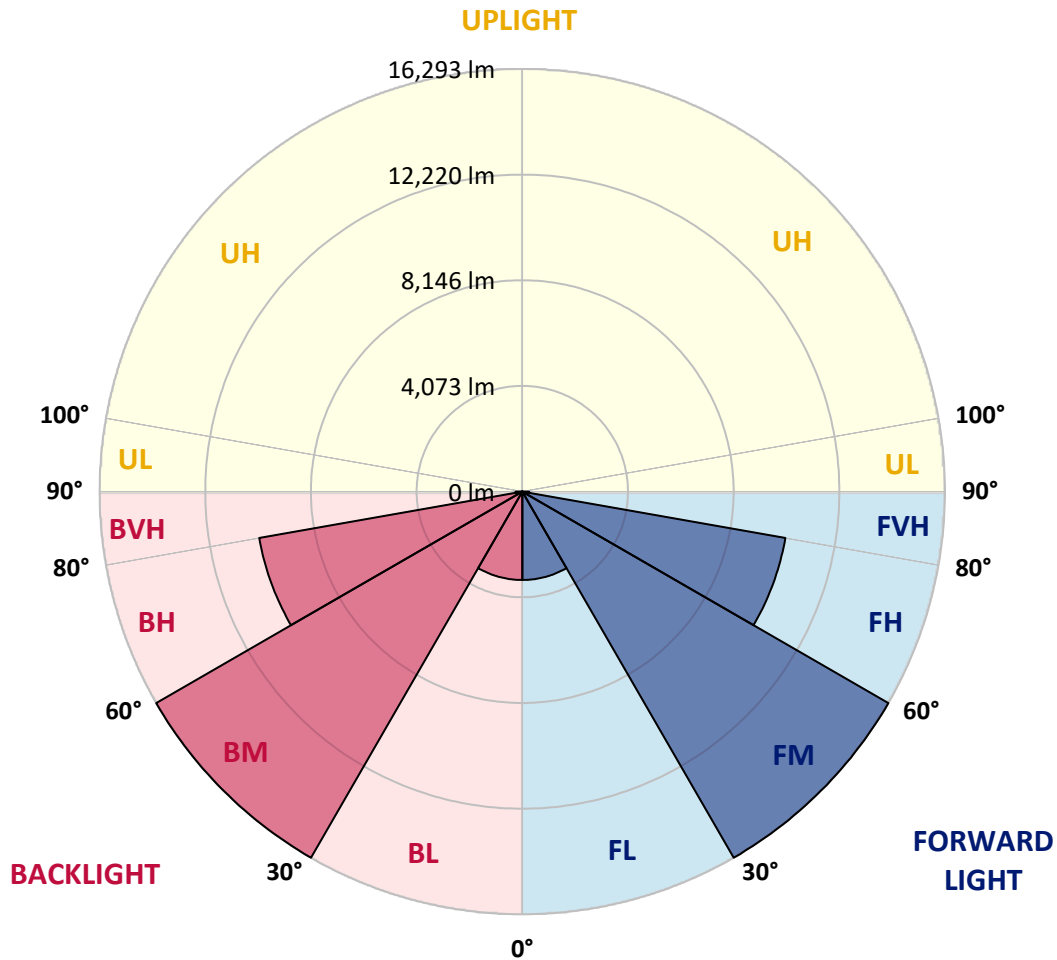


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3404.9	5.6			
FM	(30°-60°)	16292.7	26.9			
FH	(60°-80°)	10295.9	17.0			G4/12000
FVH	(80°-90°)	262.5	0.4			G3/500
BL	(0°-30°)	3404.9	5.6	B4/5000		
BM	(30°-60°)	16292.7	26.9	B5		
BH	(60°-80°)	10295.9	17.0	B5		G5
BVH	(80°-90°)	262.5	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°	6338.1	6338.1	6338.1	6338.1	6338.1	6338.1	6338.1	6338.1	6338.1	6338.1	6338.1
2.5°	6305.7	6312.2	6318.6	6328.4	6341.3	6360.8	6373.8	6383.5	6409.4	6412.7	6409.4
5°	6283.0	6289.5	6305.7	6334.9	6377.0	6435.4	6480.7	6535.9	6578.0	6607.2	6600.7
7.5°	6279.7	6292.7	6318.6	6380.2	6461.3	6561.8	6665.5	6759.6	6840.6	6905.4	6895.7
10°	6331.6	6347.8	6390.0	6480.7	6607.2	6753.1	6899.0	7038.4	7155.1	7239.4	7268.6
12.5°	6419.1	6432.1	6509.9	6646.1	6827.6	7009.2	7174.5	7346.4	7508.5	7651.1	7651.1
15°	6571.5	6594.2	6691.5	6889.2	7112.9	7323.7	7492.2	7673.8	7848.9	8011.0	8059.6
17.5°	6782.3	6814.7	6960.6	7213.4	7498.7	7693.3	7852.1	8001.2	8153.6	8309.2	8331.9
20°	7070.8	7103.2	7297.7	7602.5	7939.6	8173.1	8280.1	8315.7	8390.3	8539.4	8558.9
22.5°	7463.1	7495.5	7712.7	8056.4	8432.4	8685.3	8730.7	8646.4	8626.9	8743.7	8756.6
25°	7907.2	7936.4	8186.0	8555.6	8944.7	9220.2	9207.3	8999.8	8883.1	8954.4	8973.8
27.5°	8406.5	8448.6	8701.5	9084.1	9505.5	9748.7	9709.8	9408.3	9158.6	9145.7	9152.1
30°	9045.2	9090.6	9330.5	9696.8	10111.8	10335.5	10254.4	9849.2	9463.4	9333.7	9333.7
32.5°	9719.5	9833.0	10076.1	10458.7	10782.9	10945.0	10821.8	10335.5	9823.2	9641.7	9632.0
35°	10598.1	10659.7	10899.6	11272.4	11515.6	11642.0	11405.3	10883.4	10293.3	10079.4	10050.2
37.5°	11457.2	11509.1	11787.9	12144.5	12439.5	12433.0	12112.1	11535.0	10876.9	10637.0	10617.5
40°	12335.8	12390.9	12708.6	13036.1	13331.1	13305.1	12916.1	12270.9	11570.7	11301.6	11353.5
42.5°	13097.7	13159.3	13519.1	13986.0	14251.8	14245.3	13794.7	13068.5	12339.0	12099.1	12144.5
45°	13791.4	13846.6	14264.8	14799.7	15188.7	15237.4	14744.6	13976.2	13227.3	12919.3	12932.3
47.5°	14281.0	14384.7	14822.4	15435.1	15963.6	16135.4	15652.3	14900.2	14037.8	13716.9	13736.3
50°	14653.8	14718.7	15195.2	15892.3	16560.1	16916.7	16527.7	15756.1	14848.3	14507.9	14553.3
52.5°	14699.2	14777.0	15295.7	16099.7	16955.6	17497.0	17305.8	16592.5	15675.0	15324.9	15422.2
55°	14329.6	14375.0	14994.2	15970.1	17111.2	17928.2	17976.9	17370.6	16462.8	16197.0	16261.8
57.5°	13276.0	13392.7	14177.2	15363.8	16897.3	18158.4	18479.4	18077.4	17260.4	16997.8	17101.5
60°	11548.0	11664.7	12452.5	13956.8	16090.0	18051.4	18894.3	18703.1	17983.3	17772.6	17827.7
62.5°	9048.4	9038.7	10014.5	11859.2	14485.2	17526.2	19202.3	19306.1	18696.6	18430.7	18515.0
65°	5864.8	5893.9	6837.4	8824.7	12063.5	16190.5	19270.4	20074.4	19396.8	18994.8	19056.4
66°	4717.1	4804.6	5605.4	7437.1	10828.3	15315.2	19066.2	20301.4	19610.8	19124.5	19153.7
67.5°	3481.9	3465.7	4123.8	5537.3	8646.4	13652.0	18427.5	20444.0	19854.0	19241.2	19254.2
70°	1987.3	1984.1	2217.5	3041.0	5083.4	9612.5	15532.4	19760.0	20346.8	19662.7	19627.0
72.5°	1452.4	1442.7	1475.1	1679.4	2480.1	4853.3	10714.8	17270.1	20093.9	19594.6	19494.1
75°	1219.0	1212.5	1206.0	1232.0	1390.8	2198.1	5686.5	12423.3	17435.4	18391.8	18288.1
77.5°	995.3	995.3	998.5	992.1	998.5	1157.4	2356.9	6659.1	10617.5	11852.7	12141.3
80°	778.1	774.8	830.0	807.3	755.4	742.4	1043.9	2143.0	3524.0	3504.6	2891.9
82.5°	573.8	534.9	632.2	616.0	557.6	473.3	609.5	914.2	1176.8	765.1	567.3
85°	363.1	359.9	447.4	408.5	340.4	223.7	291.8	392.3	486.3	295.0	239.9
87.5°	64.8	61.6	142.6	103.7	103.7	64.8	81.0	107.0	158.9	110.2	81.0
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)