

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: P459529

Luminaire Tested: **GALN-SA9D-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68180 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

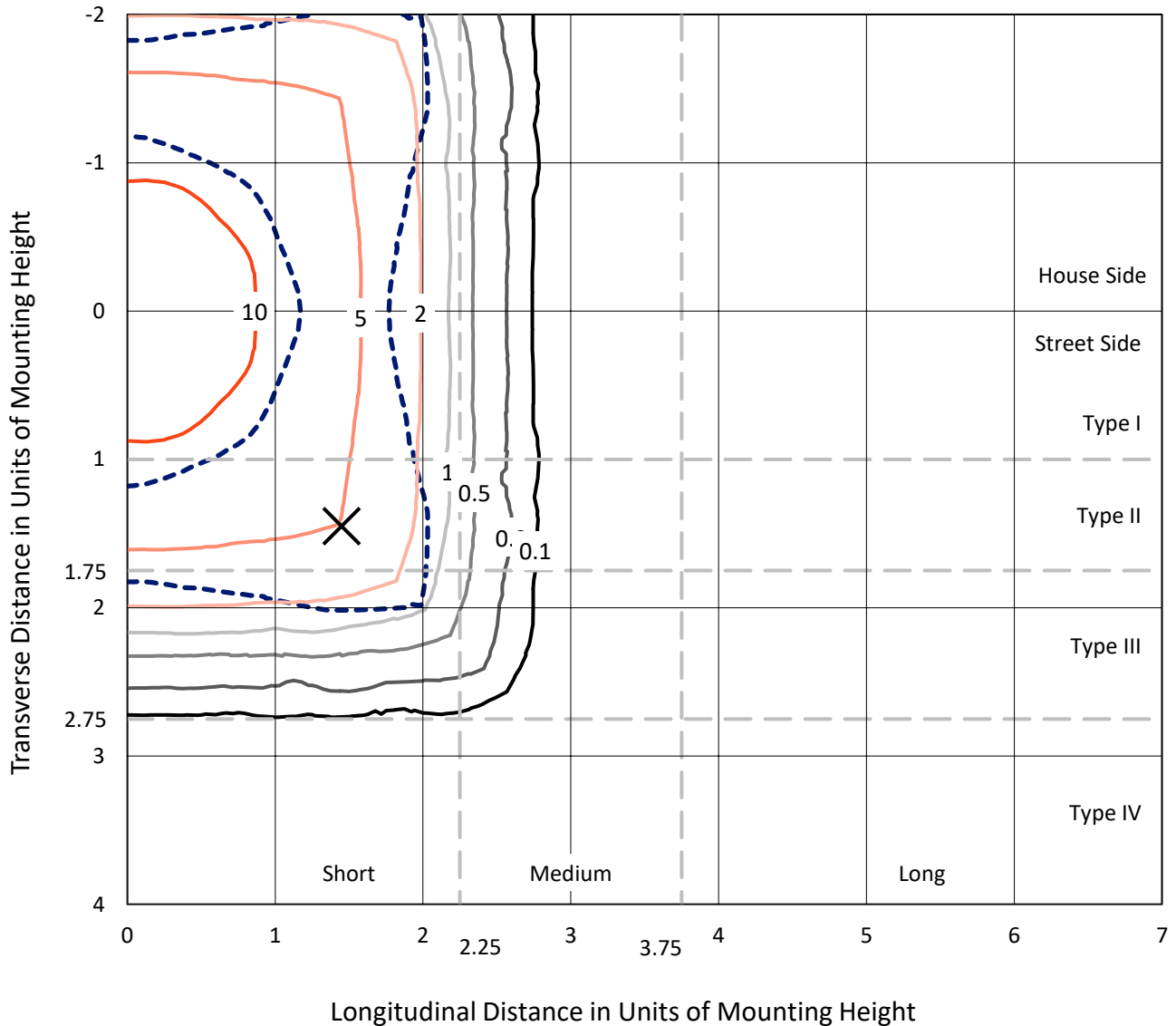
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

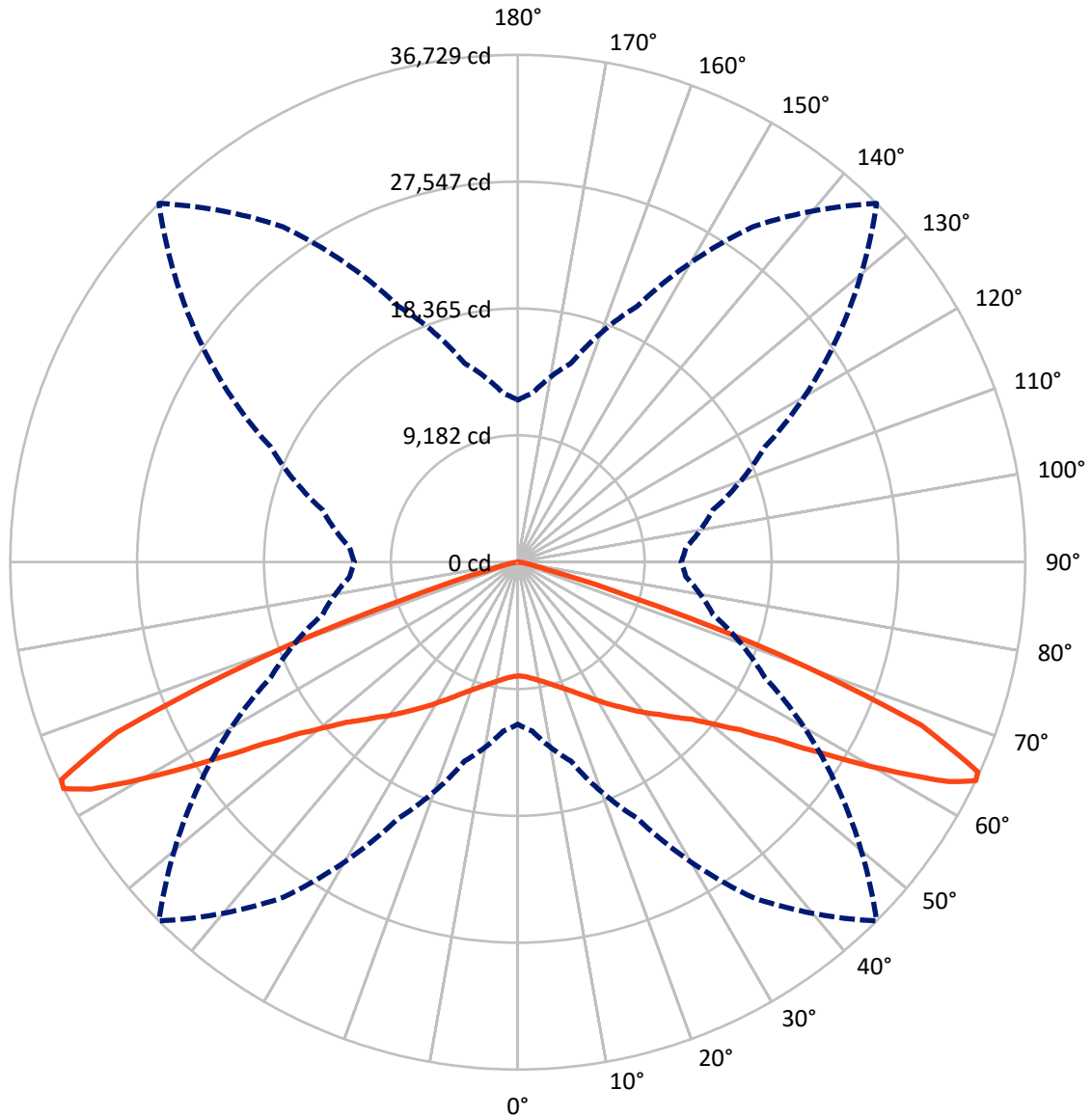
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34090.0	0.0	34090.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34090.0	0.0	34090.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	68180.0	0.0	68180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.6	1.2
10°-20°	2611.4	3.8
20°-30°	4934.9	7.2
30°-40°	8172.8	12.0
40°-50°	12759.0	18.7
50°-60°	19725.1	28.9
60°-70°	17008.7	24.9
70°-80°	1927.5	2.8
80°-90°	230.9	0.3
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°	68180.0	100.0
0°-180°	68180.0	100.0

Coefficient of Utilization



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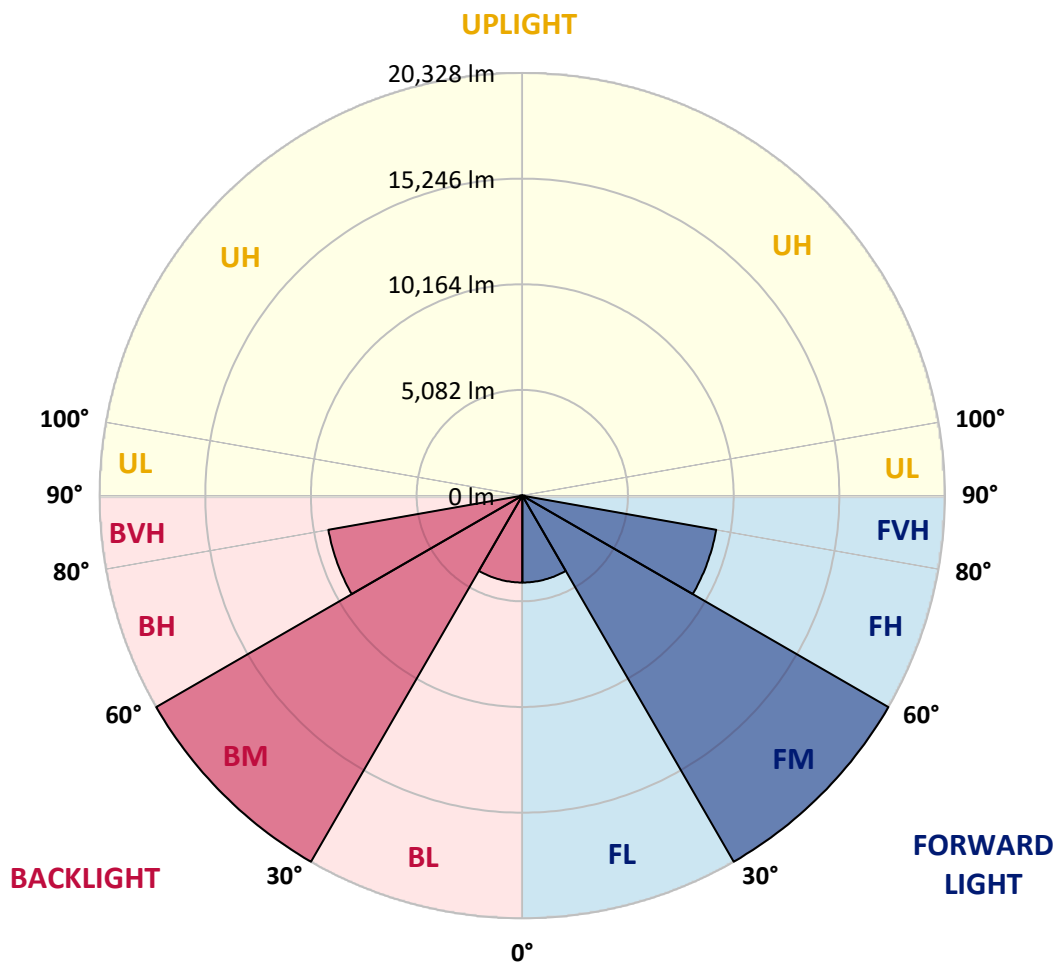
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4178.0	6.1			
FM (30°-60°)	20328.4	29.8			
FH (60°-80°)	9468.1	13.9			G4/12000
FVH (80°-90°)	115.5	0.2			G2/225
BL (0°-30°)	4178.0	6.1	B4/5000		
BM (30°-60°)	20328.4	29.8	B5		
BH (60°-80°)	9468.1	13.9	B5		G4/12000
BVH (80°-90°)	115.5	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8240.7	8240.7	8240.7	8240.7	8240.7	8240.7	8240.7	8240.7	8240.7	8240.7	8240.7
2.5°	8273.2	8291.3	8276.8	8273.2	8269.6	8269.6	8269.6	8273.2	8287.6	8298.5	8291.3
5°	8377.9	8392.4	8385.1	8381.5	8377.9	8377.9	8374.3	8370.7	8381.5	8381.5	8377.9
7.5°	8507.9	8526.0	8518.8	8526.0	8529.6	8533.2	8515.1	8500.7	8497.1	8507.9	8500.7
10°	8684.9	8699.3	8702.9	8706.5	8713.8	8710.2	8688.5	8663.2	8659.6	8656.0	8652.4
12.5°	8883.5	8894.3	8897.9	8912.4	8923.2	8926.8	8901.5	8879.9	8843.8	8851.0	8836.5
15°	9107.4	9129.0	9125.4	9147.1	9176.0	9183.2	9157.9	9121.8	9089.3	9071.3	9060.4
17.5°	9381.8	9396.3	9389.1	9410.7	9446.8	9464.9	9443.2	9396.3	9363.8	9324.1	9302.4
20°	9706.8	9732.1	9739.3	9739.3	9771.8	9789.9	9757.4	9742.9	9692.4	9663.5	9645.4
22.5°	10075.2	10086.0	10107.7	10129.3	10161.8	10154.6	10143.8	10122.1	10075.2	10049.9	10021.0
25°	10490.5	10501.3	10555.5	10602.4	10613.2	10606.0	10591.6	10580.7	10537.4	10479.6	10458.0
27.5°	10974.4	10996.0	11068.2	11111.6	11111.6	11115.2	11086.3	11122.4	11028.5	10959.9	10952.7
30°	11581.0	11595.5	11656.9	11700.2	11678.5	11660.5	11653.3	11689.4	11588.3	11465.5	11436.6
32.5°	12180.5	12231.0	12285.2	12379.1	12303.3	12270.8	12263.5	12288.8	12173.3	12036.0	11996.3
35°	12823.3	12859.4	12960.5	13039.9	12971.3	12895.5	12928.0	13007.4	12870.2	12686.1	12678.8
37.5°	13534.7	13567.2	13697.2	13780.2	13729.7	13599.7	13653.8	13747.7	13610.5	13383.0	13336.1
40°	14275.0	14343.6	14506.1	14592.8	14509.7	14336.4	14437.5	14538.6	14415.8	14152.2	14047.5
42.5°	15105.5	15213.9	15448.6	15491.9	15333.0	15098.3	15275.3	15437.8	15351.1	15047.8	15008.0
45°	16076.9	16141.9	16430.8	16524.7	16304.5	16011.9	16232.2	16528.3	16463.3	16113.1	16037.2
47.5°	17163.9	17225.3	17525.0	17665.9	17387.8	16994.2	17391.4	17777.8	17738.1	17362.5	17326.4
50°	18449.5	18463.9	18879.2	19038.1	18760.0	18420.6	18774.5	19254.8	19095.9	18615.6	18608.4
52.5°	19857.8	19875.9	20399.5	20706.5	20551.2	20168.4	20587.3	20879.8	20475.4	19847.0	19800.1
55°	21078.4	21168.7	21883.7	22699.8	22912.9	22634.8	22761.2	22624.0	21627.3	20746.2	20609.0
57.5°	21576.8	21753.7	22840.7	24364.6	25751.3	26163.0	25187.9	23880.7	22085.9	20840.1	20706.5
60°	20359.8	20551.2	22237.6	25130.2	28669.1	30456.6	27715.8	24093.8	21042.3	19290.9	19081.4
62.5°	16304.5	16358.6	18839.5	23328.2	30370.0	34999.5	28781.1	22277.3	18005.3	15625.6	15542.5
64°	11732.7	12288.8	14917.8	20453.7	29626.1	36729.3	28167.2	19731.5	14625.3	12216.6	11826.6
65°	8775.2	8926.8	12025.2	17467.2	28315.2	36599.3	26975.5	17297.5	12111.9	9349.3	8916.0
67.5°	3315.1	3333.1	4438.1	8706.5	20157.6	31489.4	20587.3	9410.7	5102.6	3690.6	3557.0
70°	1375.9	1401.1	1628.6	2928.7	8663.2	20219.0	9927.1	3394.5	1867.0	1513.1	1491.4
72.5°	1007.5	1022.0	1090.6	1300.0	2665.0	8302.1	3264.5	1440.9	1094.2	978.6	967.8
75°	790.8	798.1	848.6	957.0	1242.2	2300.3	1357.8	989.5	834.2	751.1	743.9
77.5°	603.1	621.1	657.2	729.5	834.2	1090.6	899.2	740.3	642.8	574.2	563.3
80°	415.3	437.0	505.6	534.5	559.7	707.8	613.9	559.7	502.0	418.9	393.6
82.5°	256.4	270.8	339.5	364.7	353.9	397.2	393.6	400.8	357.5	260.0	241.9
85°	133.6	140.8	184.2	191.4	176.9	162.5	202.2	234.7	220.3	148.1	144.4
87.5°	28.9	32.5	39.7	36.1	39.7	39.7	50.6	75.8	79.4	50.6	46.9
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)