

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: P459500

Luminaire Tested: **GALN-SA9C-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459500
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-SA9C-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61962 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 V - Short
BUG Rating: B5 - U0 - G4

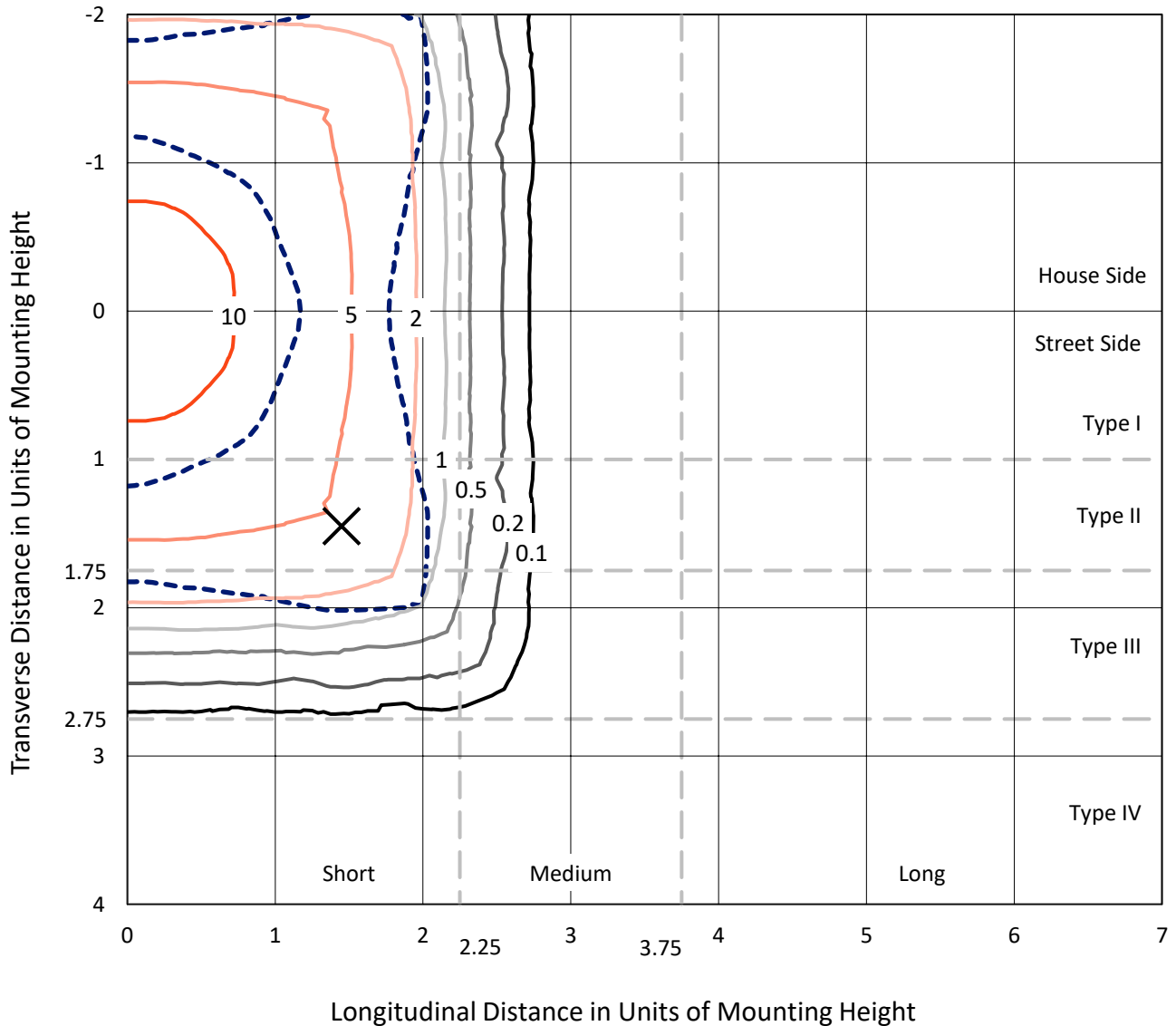
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

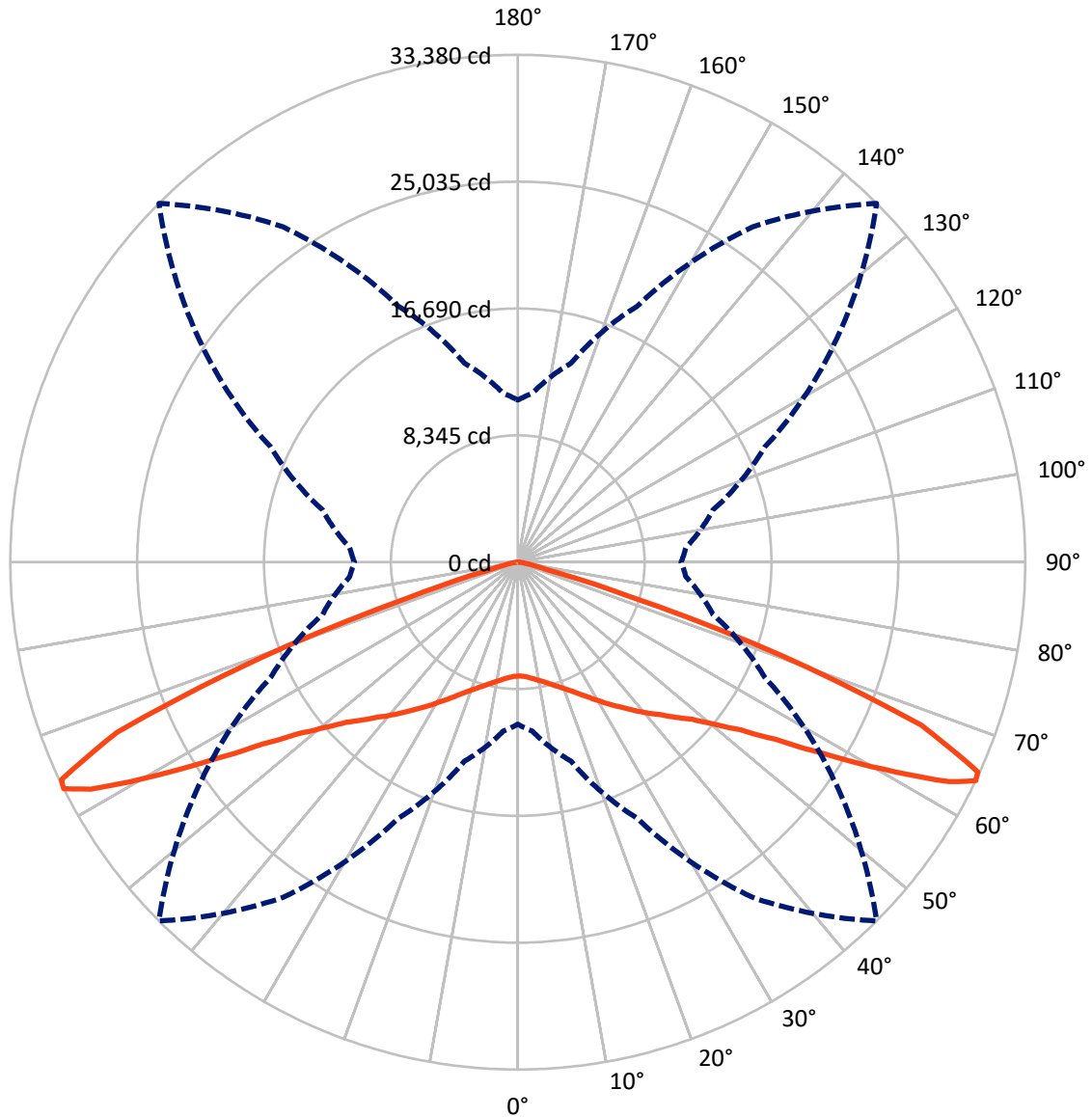
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	30981.0	0.0	30981.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	30981.0	0.0	30981.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	61962.0	0.0	61962.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.8	1.2
10°-20°	2373.3	3.8
20°-30°	4484.8	7.2
30°-40°	7427.4	12.0
40°-50°	11595.4	18.7
50°-60°	17926.2	28.9
60°-70°	15457.5	24.9
70°-80°	1751.7	2.8
80°-90°	209.9	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°	61962.0	100.0
0°-180°	61962.0	100.0

Coefficient of Utilization



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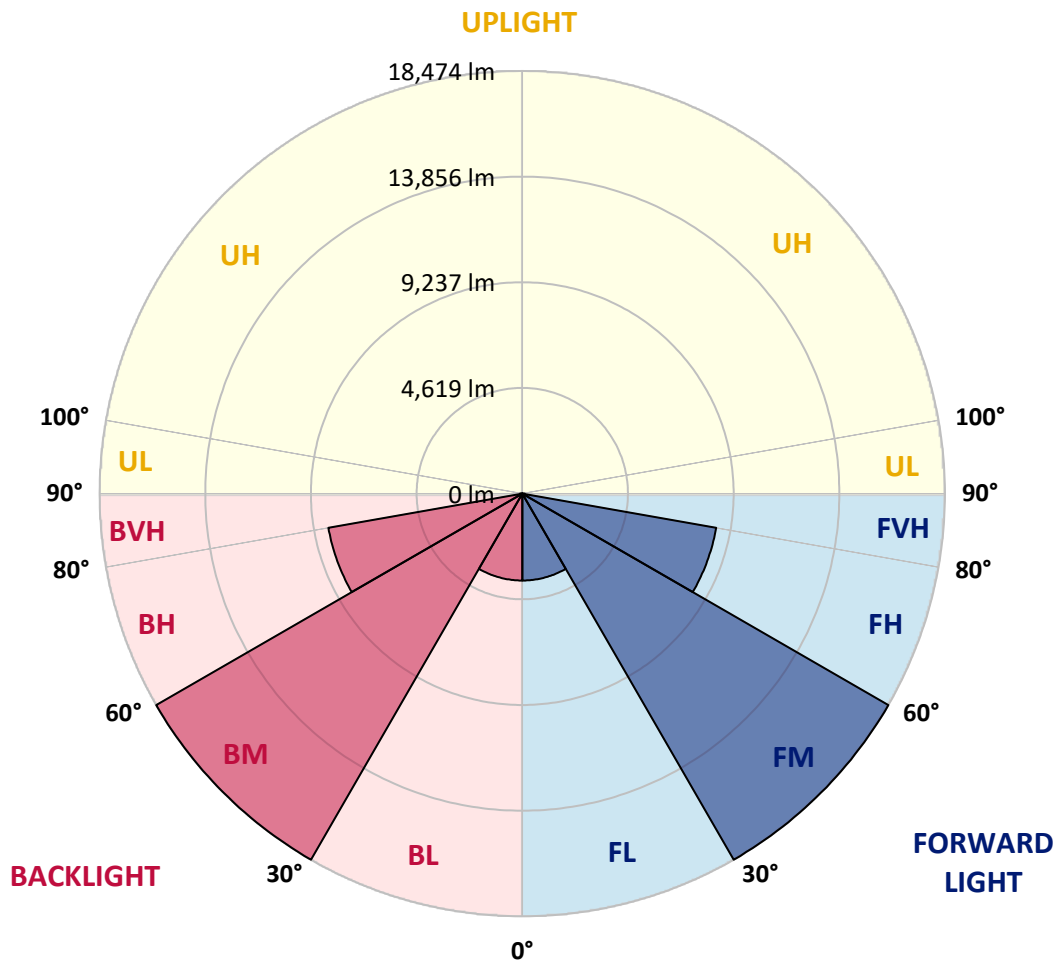
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3796.9	6.1			
FM (30°-60°)	18474.5	29.8			
FH (60°-80°)	8604.6	13.9			G4/12000
FVH (80°-90°)	104.9	0.2			G2/225
BL (0°-30°)	3796.9	6.1	B4/5000		
BM (30°-60°)	18474.5	29.8	B5		
BH (60°-80°)	8604.6	13.9	B5		G4/12000
BVH (80°-90°)	104.9	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°	7489.1	7489.1	7489.1	7489.1	7489.1	7489.1	7489.1	7489.1	7489.1	7489.1	7489.1
2.5°	7518.7	7535.1	7522.0	7518.7	7515.4	7515.4	7518.7	7531.8	7541.7	7535.1	7535.1
5°	7613.9	7627.0	7620.4	7617.1	7613.9	7617.1	7610.6	7607.3	7617.1	7617.1	7613.9
7.5°	7732.0	7748.4	7741.9	7748.4	7751.7	7755.0	7738.6	7725.4	7722.2	7732.0	7725.4
10°	7892.8	7905.9	7909.2	7912.5	7919.1	7915.8	7896.1	7873.1	7869.8	7866.6	7863.3
12.5°	8073.3	8083.2	8086.4	8099.6	8109.4	8112.7	8089.7	8070.0	8037.2	8043.8	8030.7
15°	8276.8	8296.5	8293.2	8312.9	8339.1	8345.7	8322.7	8289.9	8260.4	8244.0	8234.1
17.5°	8526.2	8539.3	8532.8	8552.5	8585.3	8601.7	8582.0	8539.3	8509.8	8473.7	8454.0
20°	8821.6	8844.5	8851.1	8851.1	8880.6	8897.1	8867.5	8854.4	8808.4	8782.2	8765.8
22.5°	9156.3	9166.2	9185.9	9205.5	9235.1	9228.5	9218.7	9199.0	9156.3	9133.3	9107.1
25°	9533.7	9543.6	9592.8	9635.5	9645.3	9638.8	9625.6	9615.8	9576.4	9523.9	9504.2
27.5°	9973.5	9993.2	10058.8	10098.2	10098.2	10101.5	10075.2	10108.1	10022.7	9960.4	9953.8
30°	10524.8	10538.0	10593.8	10633.1	10613.5	10597.0	10590.5	10623.3	10531.4	10419.8	10393.6
32.5°	11069.6	11115.6	11164.8	11250.1	11181.2	11151.7	11145.1	11168.1	11063.1	10938.4	10902.3
35°	11653.8	11686.6	11778.5	11850.7	11788.4	11719.4	11749.0	11821.2	11696.5	11529.1	11522.5
37.5°	12300.3	12329.9	12448.0	12523.5	12477.5	12359.4	12408.6	12493.9	12369.2	12162.5	12119.8
40°	12973.1	13035.5	13183.1	13261.9	13186.4	13028.9	13120.8	13212.7	13101.1	12861.5	12766.3
42.5°	13727.9	13826.4	14039.7	14079.1	13934.7	13721.4	13882.2	14029.8	13951.1	13675.4	13639.3
45°	14610.7	14669.8	14932.4	15017.7	14817.5	14551.7	14751.9	15021.0	14961.9	14643.6	14574.6
47.5°	15598.6	15654.4	15926.7	16054.7	15802.0	15444.3	15805.3	16156.5	16120.4	15779.1	15746.2
50°	16766.9	16780.0	17157.4	17301.8	17049.1	16740.6	17062.3	17498.7	17354.3	16917.9	16911.3
52.5°	18046.8	18063.2	18539.1	18818.0	18676.9	18329.1	18709.7	18975.6	18608.0	18037.0	17994.3
55°	19156.1	19238.1	19887.9	20629.6	20823.2	20570.5	20685.4	20560.7	19654.9	18854.1	18729.4
57.5°	19609.0	19769.8	20757.6	22142.5	23402.8	23776.9	22890.8	21702.8	20071.7	18939.5	18818.0
60°	18503.0	18676.9	20209.5	22838.3	26054.5	27679.0	25188.1	21896.4	19123.3	17531.6	17341.2
62.5°	14817.5	14866.7	17121.3	21200.7	27600.2	31807.6	26156.2	20245.6	16363.2	14200.5	14125.0
64°	10662.7	11168.1	13557.3	18588.3	26924.2	33379.6	25598.3	17932.0	13291.4	11102.5	10748.0
65°	7974.9	8112.7	10928.5	15874.2	25732.9	33261.4	24515.3	15720.0	11007.3	8496.7	8102.9
67.5°	3012.7	3029.1	4033.4	7912.5	18319.2	28617.6	18709.7	8552.5	4637.2	3354.0	3232.6
70°	1250.4	1273.4	1480.1	2661.6	7873.1	18375.0	9021.8	3084.9	1696.7	1375.1	1355.4
72.5°	915.6	928.8	991.1	1181.5	2422.0	7544.9	2966.8	1309.5	994.4	889.4	879.5
75°	718.7	725.3	771.2	869.7	1129.0	2090.5	1234.0	899.2	758.1	682.6	676.1
77.5°	548.1	564.5	597.3	662.9	758.1	991.1	817.2	672.8	584.2	521.8	512.0
80°	377.4	397.1	459.5	485.7	508.7	643.2	557.9	508.7	456.2	380.7	357.7
82.5°	233.0	246.1	308.5	331.5	321.6	361.0	357.7	364.3	324.9	236.3	219.9
85°	121.4	128.0	167.4	173.9	160.8	147.7	183.8	213.3	200.2	134.6	131.3
87.5°	26.3	29.5	36.1	32.8	36.1	36.1	45.9	68.9	72.2	45.9	42.7
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)