

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: P459040

Luminaire Tested: **GALN-SA5C-735-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459040
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-SA5C-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33838 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

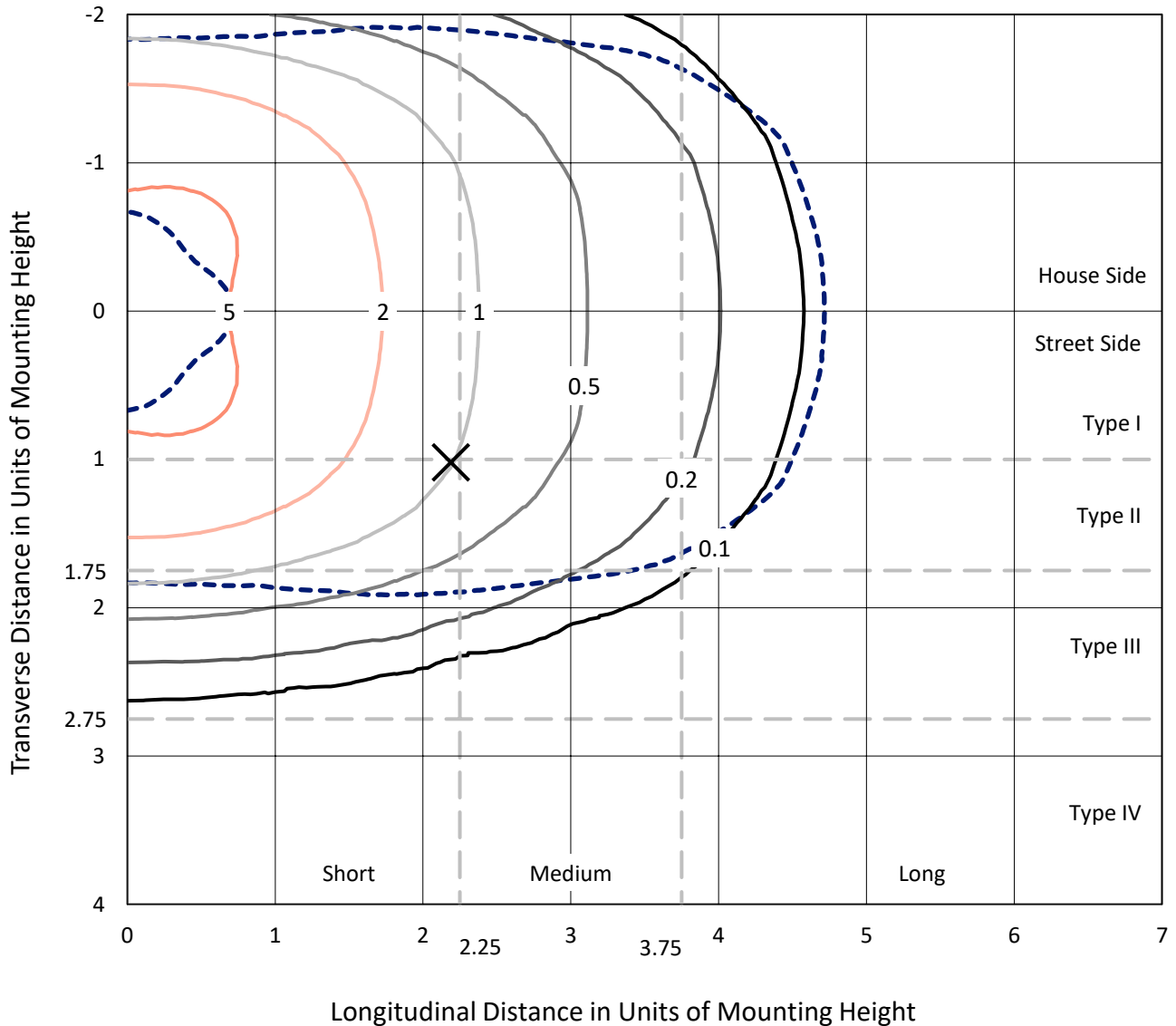
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

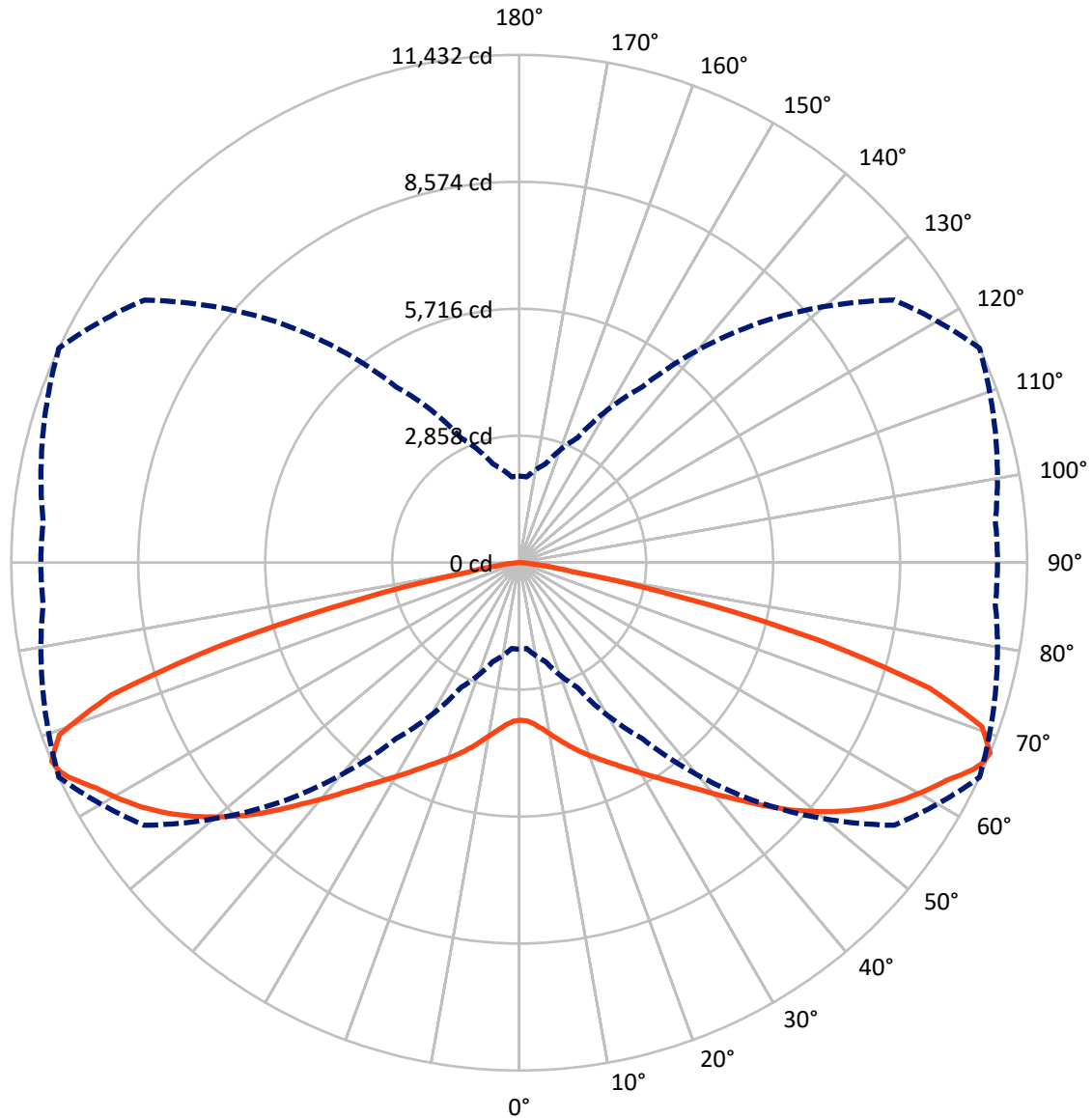
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	16919.0	0.0	16919.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16919.0	0.0	16919.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	33838.0	0.0	33838.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.6	1.0
10°-20°	1169.9	3.5
20°-30°	2288.5	6.8
30°-40°	3892.4	11.5
40°-50°	6160.5	18.2
50°-60°	8168.7	24.1
60°-70°	7705.6	22.8
70°-80°	3809.3	11.3
80°-90°	293.6	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°	33838.0	100.0
0°-180°	33838.0	100.0



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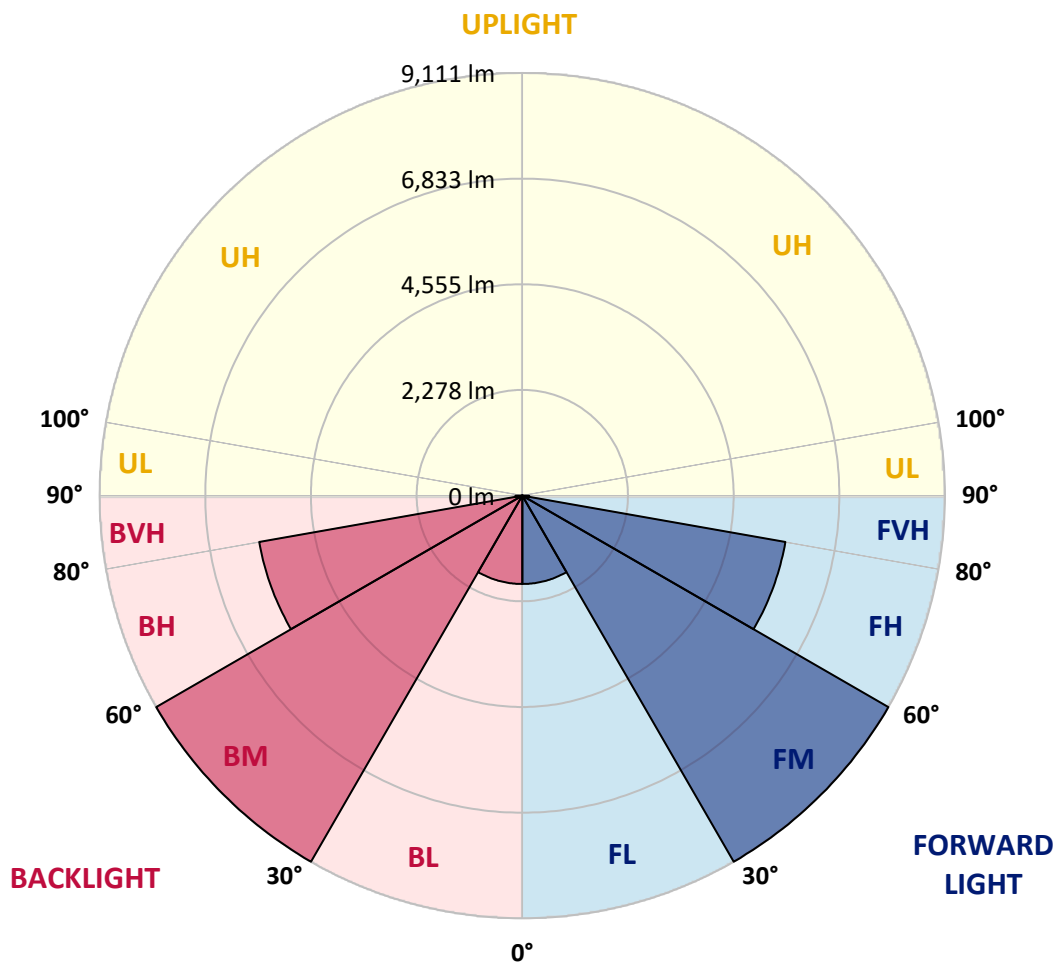
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1904.0	5.6			
FM (30°-60°)	9110.8	26.9			
FH (60°-80°)	5757.4	17.0			G3/7500
FVH (80°-90°)	146.8	0.4			G2/225
BL (0°-30°)	1904.0	5.6	B3/2500		
BM (30°-60°)	9110.8	26.9	B5		
BH (60°-80°)	5757.4	17.0	B5		G5
BVH (80°-90°)	146.8	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2	3544.2
2.5°	3526.1	3529.7	3533.4	3538.8	3546.0	3556.9	3564.2	3569.6	3584.1	3585.9	3584.1
5°	3513.4	3517.0	3526.1	3542.4	3566.0	3598.6	3624.0	3654.8	3678.4	3694.7	3691.1
7.5°	3511.6	3518.9	3533.4	3567.8	3613.1	3669.3	3727.3	3779.9	3825.2	3861.5	3856.1
10°	3540.6	3549.7	3573.2	3624.0	3694.7	3776.3	3857.9	3935.8	4001.1	4048.2	4064.5
12.5°	3589.6	3596.8	3640.3	3716.5	3818.0	3919.5	4012.0	4108.0	4198.7	4278.5	4278.5
15°	3674.8	3687.5	3741.8	3852.4	3977.5	4095.4	4189.6	4291.1	4389.0	4479.7	4506.9
17.5°	3792.6	3810.7	3892.3	4033.7	4193.3	4302.0	4390.9	4474.3	4559.5	4646.5	4659.2
20°	3953.9	3972.1	4080.9	4251.3	4439.8	4570.3	4630.2	4650.1	4691.8	4775.2	4786.1
22.5°	4173.3	4191.4	4312.9	4505.1	4715.4	4856.8	4882.2	4835.0	4824.1	4889.4	4896.7
25°	4421.7	4438.0	4577.6	4784.3	5001.8	5155.9	5148.7	5032.6	4967.4	5007.2	5018.1
27.5°	4700.9	4724.4	4865.8	5079.8	5315.4	5451.4	5429.7	5261.1	5121.5	5114.2	5117.8
30°	5058.0	5083.4	5217.5	5422.4	5654.5	5779.5	5734.2	5507.6	5291.9	5219.4	5219.4
32.5°	5435.1	5498.5	5634.5	5848.4	6029.7	6120.4	6051.5	5779.5	5493.1	5391.6	5386.1
35°	5926.4	5960.8	6095.0	6303.5	6439.4	6510.1	6377.8	6085.9	5756.0	5636.3	5620.0
37.5°	6406.8	6435.8	6591.7	6791.1	6956.1	6952.5	6773.0	6450.3	6082.3	5948.1	5937.3
40°	6898.1	6928.9	7106.6	7289.7	7454.7	7440.2	7222.6	6861.9	6470.3	6319.8	6348.8
42.5°	7324.1	7358.6	7559.8	7820.9	7969.5	7965.9	7713.9	7307.8	6899.9	6765.8	6791.1
45°	7712.1	7742.9	7976.8	8275.9	8493.5	8520.7	8245.1	7815.4	7396.7	7224.4	7231.7
47.5°	7985.9	8043.9	8288.6	8631.2	8926.8	9022.8	8752.7	8332.1	7849.9	7670.4	7681.3
50°	8194.3	8230.6	8497.1	8886.9	9260.3	9459.7	9242.2	8810.7	8303.1	8112.8	8138.1
52.5°	8219.7	8263.2	8553.3	9002.9	9481.5	9784.3	9677.3	9278.5	8765.4	8569.6	8624.0
55°	8013.0	8038.4	8384.7	8930.4	9568.5	10025.4	10052.6	9713.6	9205.9	9057.3	9093.5
57.5°	7423.9	7489.1	7927.8	8591.4	9448.9	10154.1	10333.6	10108.8	9651.9	9505.1	9563.1
60°	6457.6	6522.8	6963.4	7804.6	8997.5	10094.3	10565.6	10458.7	10056.2	9938.4	9969.2
62.5°	5059.8	5054.4	5600.1	6631.6	8100.1	9800.6	10737.8	10795.9	10455.0	10306.4	10353.5
65°	3279.5	3295.9	3823.4	4934.7	6745.8	9053.7	10775.9	11225.5	10846.6	10621.8	10656.3
66°	2637.8	2686.7	3134.5	4158.8	6055.1	8564.2	10661.7	11352.4	10966.3	10694.3	10710.7
67.5°	1947.1	1938.0	2306.0	3096.4	4835.0	7634.1	10304.6	11432.2	11102.2	10759.6	10766.9
70°	1111.3	1109.5	1240.0	1700.5	2842.6	5375.3	8685.6	11049.7	11377.8	10995.3	10975.3
72.5°	812.2	806.7	824.9	939.1	1386.9	2713.9	5991.7	9657.4	11236.4	10957.2	10901.0
75°	681.7	678.0	674.4	688.9	777.7	1229.2	3179.8	6947.1	9749.8	10284.6	10226.6
77.5°	556.6	556.6	558.4	554.7	558.4	647.2	1318.0	3723.7	5937.3	6628.0	6789.3
80°	435.1	433.3	464.1	451.4	422.4	415.2	583.8	1198.3	1970.6	1959.8	1617.1
82.5°	320.9	299.1	353.5	344.5	311.8	264.7	340.8	511.2	658.1	427.8	317.3
85°	203.0	201.2	250.2	228.4	190.4	125.1	163.2	219.4	271.9	165.0	134.2
87.5°	36.3	34.4	79.8	58.0	58.0	36.3	45.3	59.8	88.8	61.6	45.3
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)