

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: P533560

Luminaire Tested: **GALN-SA9A-730-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-730-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33083 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): 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

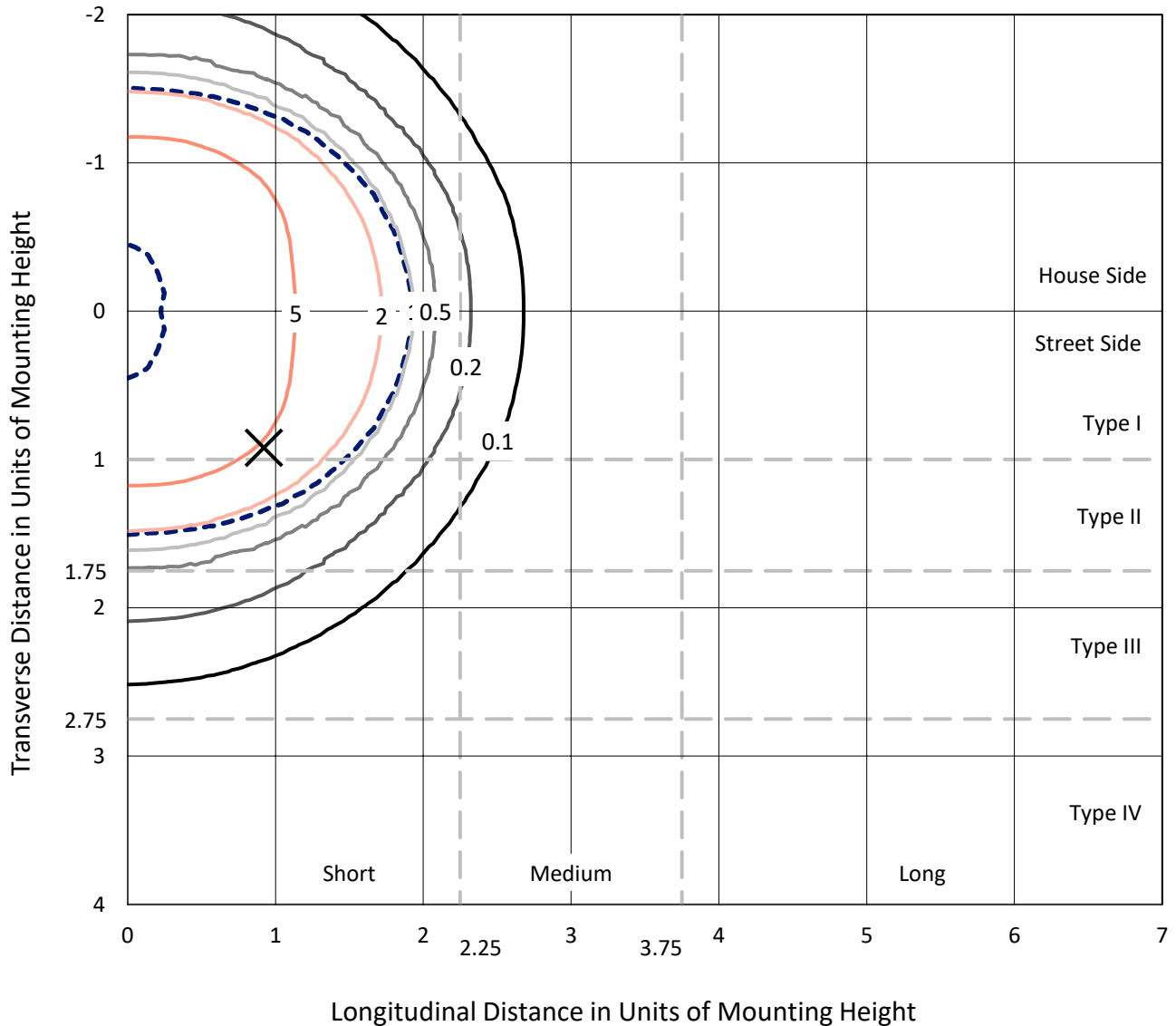




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Iso-Footcandle Lines of Horizontal Illumination

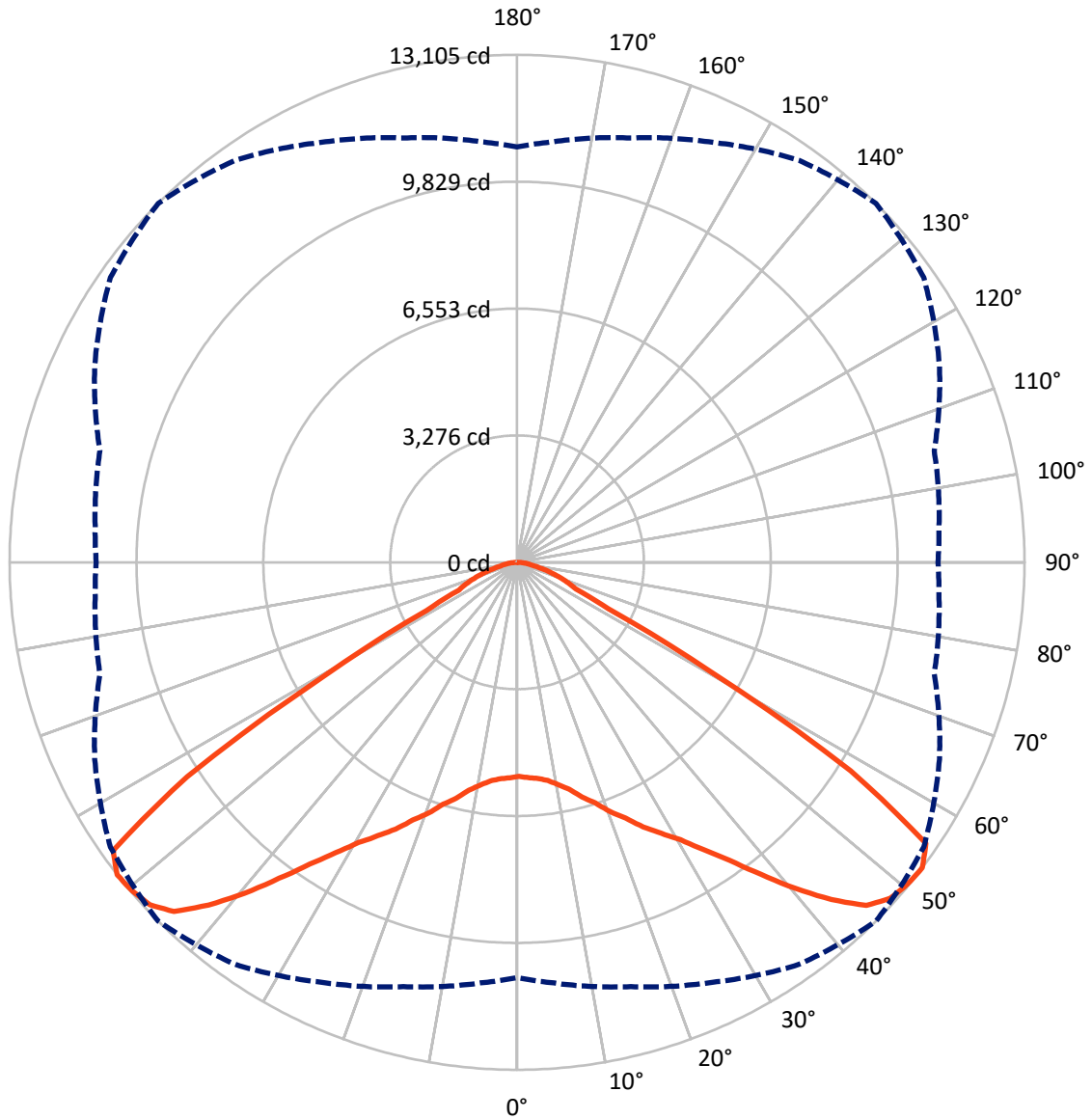
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16541.5	0.0	16541.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16541.5	0.0	16541.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33083.0	0.0	33083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.3	1.6
10°-20°	1785.4	5.4
20°-30°	3399.1	10.3
30°-40°	5836.4	17.6
40°-50°	8970.7	27.1
50°-60°	9109.6	27.5
60°-70°	2538.7	7.7
70°-80°	748.9	2.3
80°-90°	150.8	0.5
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°	33083.0	100.0
0°-180°	33083.0	100.0

Coefficient of Utilization



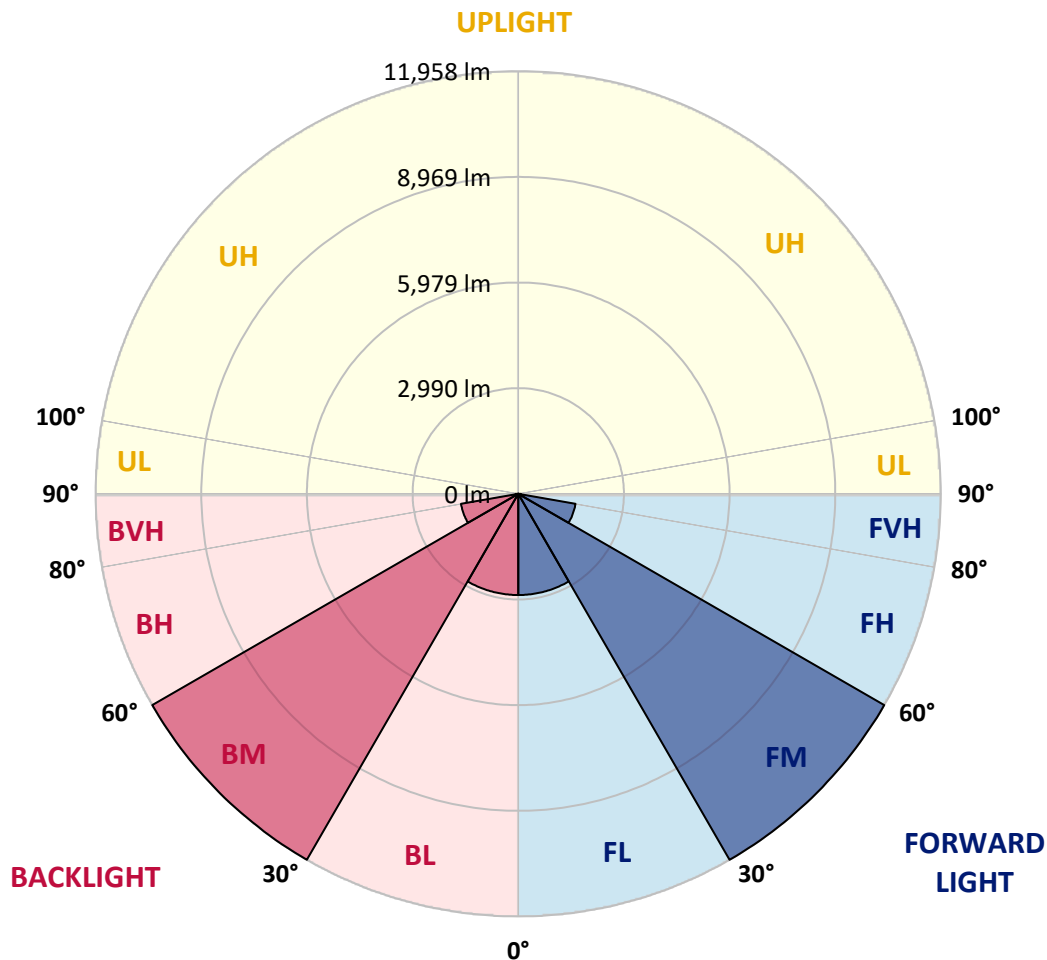
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2863.9	8.7			
FM	(30°-60°)	11958.4	36.1			
FH	(60°-80°)	1643.8	5.0			G1/1800
FVH	(80°-90°)	75.4	0.2			G1/100
BL	(0°-30°)	2863.9	8.7	B4/5000		
BM	(30°-60°)	11958.4	36.1	B5		
BH	(60°-80°)	1643.8	5.0	B3/2500		G1/1800
BVH	(80°-90°)	75.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5530.3	5530.3	5530.3	5530.3	5530.3	5530.3	5530.3	5530.3	5530.3	5530.3	5530.3
2.5°	5542.6	5485.1	5505.6	5517.9	5571.3	5567.2	5554.9	5571.3	5587.7	5591.8	5583.6
5°	5538.5	5497.4	5513.8	5526.2	5579.5	5608.3	5600.1	5669.9	5719.1	5706.8	5768.4
7.5°	5505.6	5530.3	5509.7	5571.3	5616.5	5686.3	5760.2	5825.9	5887.4	5957.2	5969.6
10°	5579.5	5579.5	5616.5	5665.7	5784.8	5838.2	5944.9	6039.4	6158.4	6240.5	6207.7
12.5°	5657.5	5669.9	5669.9	5797.1	5895.7	6014.7	6113.3	6240.5	6408.9	6507.4	6556.7
15°	5735.5	5743.8	5784.8	5957.2	6105.0	6293.9	6384.2	6499.2	6593.6	6778.4	6782.5
17.5°	5805.3	5850.5	5973.7	6166.6	6351.4	6532.0	6675.7	6794.8	6876.9	6950.8	6934.4
20°	6068.1	6100.9	6228.2	6421.2	6696.3	6872.8	6922.1	6942.6	6996.0	7143.8	7098.6
22.5°	6322.6	6335.0	6454.0	6749.6	6942.6	7176.6	7230.0	7217.7	7238.2	7275.1	7340.8
25°	6585.4	6605.9	6770.2	7020.6	7291.6	7570.7	7615.9	7521.5	7492.7	7533.8	7537.9
27.5°	6922.1	6926.2	7135.6	7353.2	7661.1	7923.8	7993.6	7919.7	7784.2	7817.1	7870.5
30°	7349.0	7320.3	7529.7	7841.7	8166.1	8313.9	8432.9	8396.0	8248.2	8219.4	8174.3
32.5°	7841.7	7849.9	8038.8	8379.6	8593.0	8839.4	8966.7	8905.1	8810.6	8761.4	8790.1
35°	8535.6	8572.5	8699.8	8983.1	9328.0	9451.1	9652.3	9520.9	9274.6	9336.2	9389.5
37.5°	9106.2	9213.0	9451.1	9787.8	9993.1	10218.9	10292.8	10116.2	9935.6	9861.7	10038.2
40°	9980.7	9947.9	10210.7	10547.3	10851.1	11076.9	10982.5	10806.0	10358.5	10362.6	10411.8
42.5°	10732.1	10748.5	10949.7	11352.0	11766.7	11906.3	11606.6	11175.5	10678.7	10625.3	10732.1
45°	11364.3	11430.0	11545.0	12082.8	12489.3	12641.2	12086.9	11577.8	10912.7	10691.0	10867.6
47.5°	11590.1	11696.9	11947.3	12440.0	12842.4	12965.5	12522.1	11791.3	11130.3	10769.0	10863.4
50°	11623.0	11586.0	11996.6	12448.2	12801.3	13068.2	12678.1	11947.3	11076.9	10888.1	10859.3
52.5°	10723.9	10904.5	11343.8	11963.8	12678.1	13105.1	12817.7	12033.5	11150.8	10937.4	10867.6
55°	8679.3	8465.8	9266.4	10309.2	11623.0	12809.5	12768.5	12078.7	11196.0	11019.5	10925.0
57.5°	4844.6	4906.2	5357.8	6491.0	8186.6	10157.3	11352.0	11602.5	11175.5	11072.8	11122.1
60°	2241.7	2262.2	2455.2	2984.8	4035.8	5760.2	7332.6	8929.7	9664.6	9812.4	9812.4
62.5°	1671.0	1662.8	1712.0	1806.5	2028.2	2648.1	3534.9	4803.6	5813.5	6519.7	6704.5
65°	1510.9	1506.8	1531.4	1564.2	1580.7	1666.9	1863.9	2254.0	2582.4	2771.3	2738.4
67.5°	1322.0	1317.9	1326.1	1346.6	1375.4	1420.5	1469.8	1551.9	1666.9	1658.7	1638.1
70°	1067.5	1067.5	1079.8	1096.2	1129.0	1182.4	1239.9	1297.4	1395.9	1416.4	1412.3
72.5°	788.3	776.0	800.6	833.4	866.3	932.0	993.6	1046.9	1116.7	1137.3	1129.0
75°	500.9	509.1	525.5	562.5	619.9	665.1	730.8	776.0	821.1	837.5	841.7
77.5°	279.2	287.4	316.1	361.3	418.8	468.0	525.5	562.5	591.2	595.3	599.4
80°	168.3	172.4	201.2	242.2	291.5	344.9	390.0	427.0	451.6	439.3	435.2
82.5°	102.6	106.7	131.4	168.3	209.4	250.4	299.7	332.6	357.2	340.8	324.3
85°	53.4	57.5	78.0	102.6	135.5	156.0	156.0	139.6	135.5	127.3	123.2
87.5°	16.4	16.4	20.5	24.6	20.5	24.6	28.7	32.8	32.8	37.0	32.8
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)