

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: P458141

Luminaire Tested: **GALN-SA9C-740-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458141
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-SA9C-740-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65757 lumens
Efficiency: N/A
Efficacy: 136.7 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

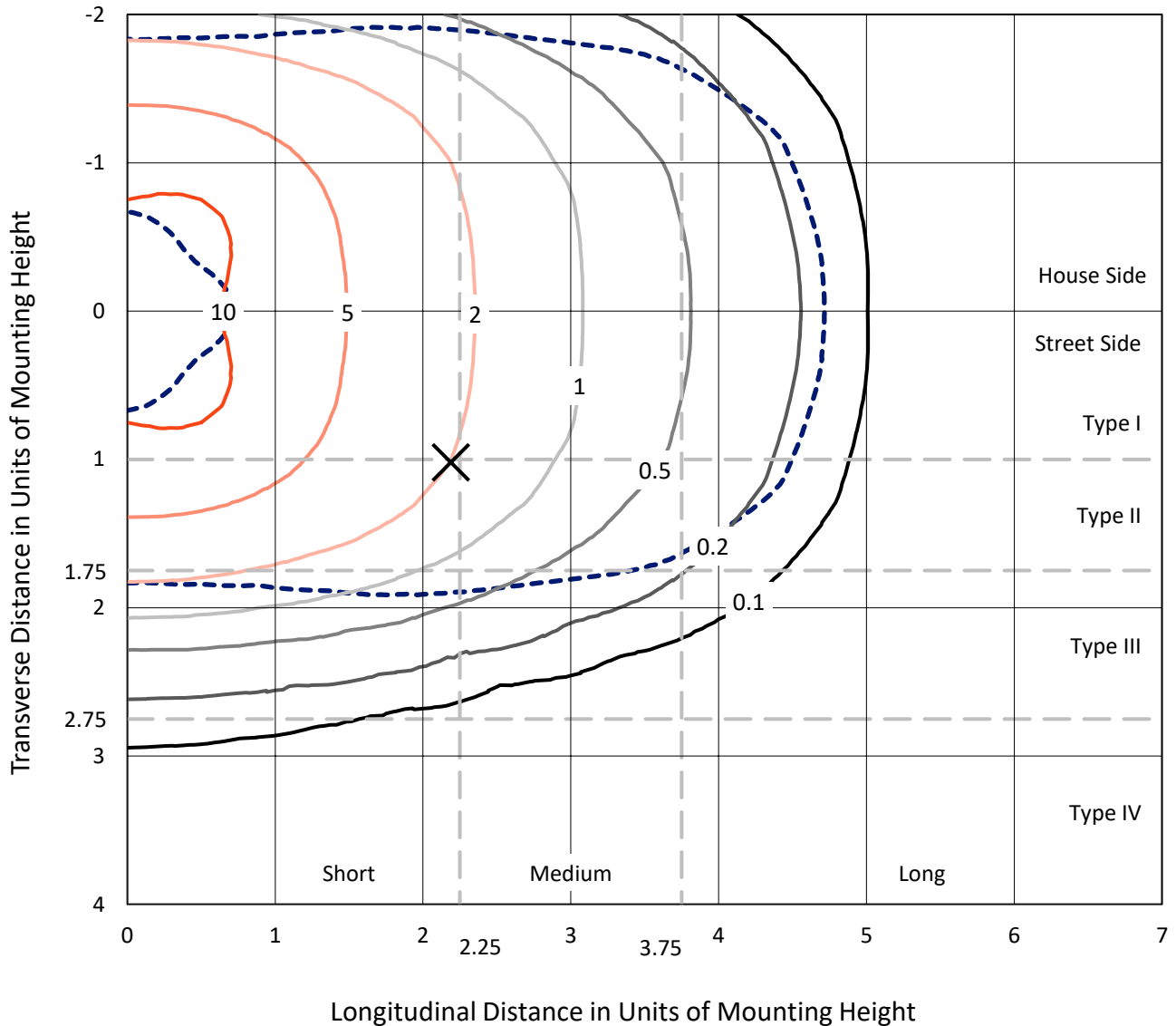
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

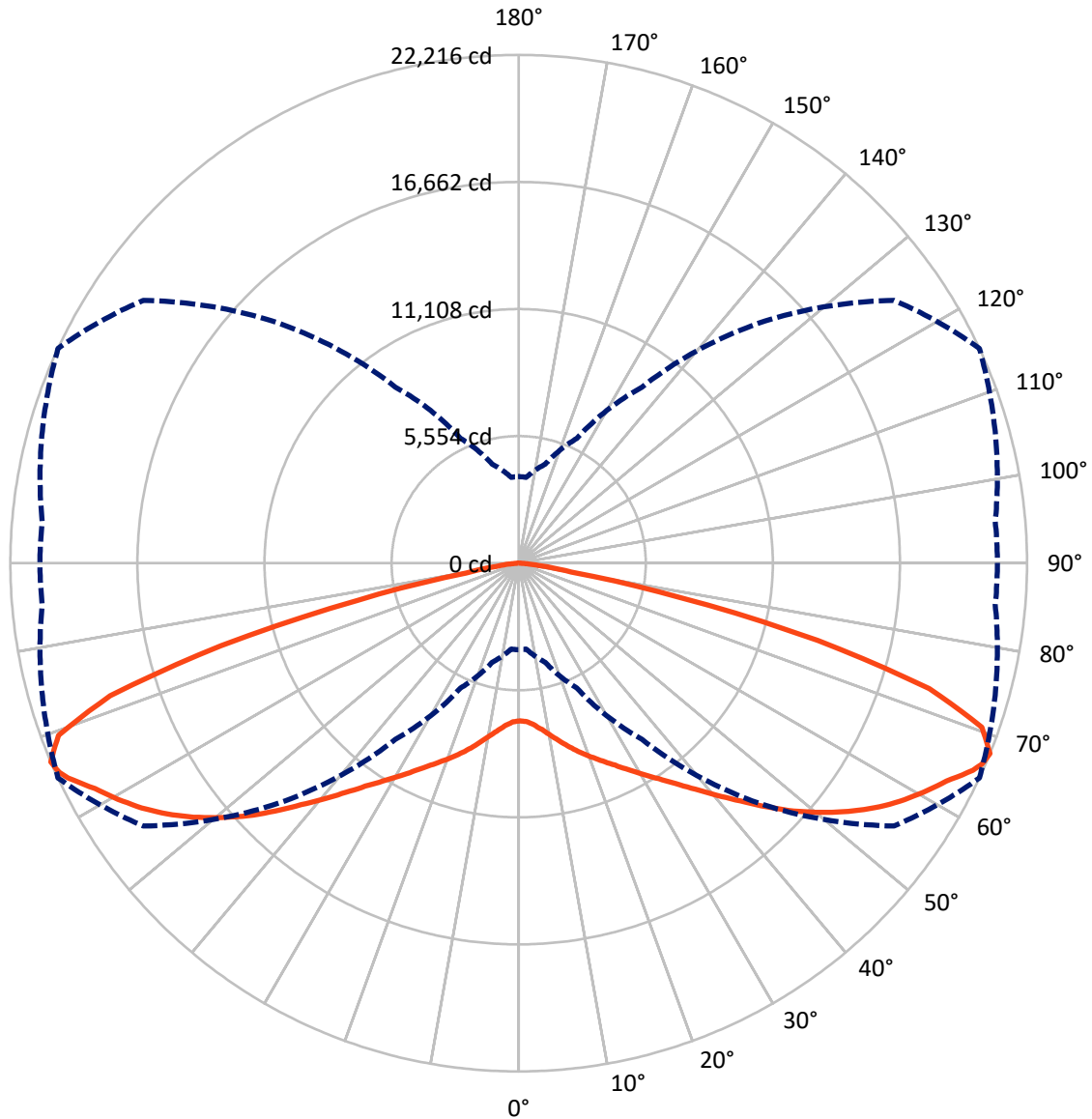
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	32878.5	0.0	32878.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32878.5	0.0	32878.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	65757.0	0.0	65757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.3	1.0
10°-20°	2273.5	3.5
20°-30°	4447.2	6.8
30°-40°	7564.1	11.5
40°-50°	11971.6	18.2
50°-60°	15874.1	24.1
60°-70°	14974.2	22.8
70°-80°	7402.5	11.3
80°-90°	570.5	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°	65757.0	100.0
0°-180°	65757.0	100.0

Coefficient of Utilization



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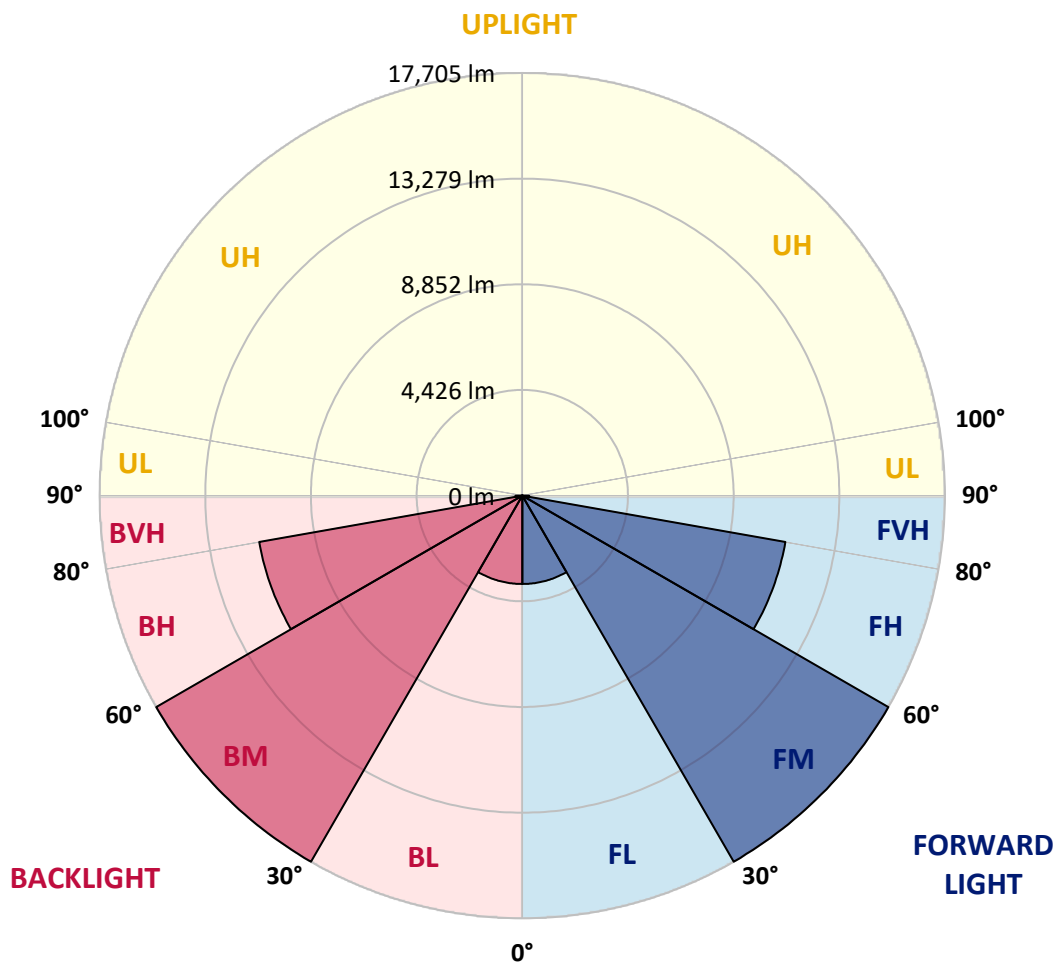
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3700.0	5.6			
FM (30°-60°)	17704.9	26.9			
FH (60°-80°)	11188.4	17.0			G4/12000
FVH (80°-90°)	285.2	0.4			G3/500
BL (0°-30°)	3700.0	5.6	B4/5000		
BM (30°-60°)	17704.9	26.9	B5		
BH (60°-80°)	11188.4	17.0	B5		G5
BVH (80°-90°)	285.2	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°	6887.5	6887.5	6887.5	6887.5	6887.5	6887.5	6887.5	6887.5	6887.5	6887.5	6887.5
2.5°	6852.2	6859.3	6866.3	6876.9	6891.0	6912.1	6926.2	6936.8	6965.0	6968.5	6965.0
5°	6827.6	6834.6	6852.2	6883.9	6929.7	6993.2	7042.5	7102.4	7148.2	7179.9	7172.8
7.5°	6824.1	6838.1	6866.3	6933.3	7021.3	7130.6	7243.3	7345.5	7433.5	7504.0	7493.4
10°	6880.4	6898.0	6943.8	7042.5	7179.9	7338.4	7496.9	7648.4	7775.3	7866.9	7898.6
12.5°	6975.5	6989.6	7074.2	7222.2	7419.4	7616.7	7796.4	7983.1	8159.3	8314.3	8314.3
15°	7141.1	7165.8	7271.5	7486.4	7729.5	7958.5	8141.7	8338.9	8529.2	8705.3	8758.2
17.5°	7370.1	7405.3	7563.9	7838.7	8148.7	8360.1	8532.7	8694.8	8860.3	9029.4	9054.1
20°	7683.7	7718.9	7930.3	8261.4	8627.8	8881.5	8997.7	9036.5	9117.5	9279.6	9300.7
22.5°	8109.9	8145.2	8381.2	8754.7	9163.3	9438.1	9487.4	9395.8	9374.7	9501.5	9515.6
25°	8592.6	8624.3	8895.6	9297.2	9720.0	10019.4	10005.3	9779.8	9653.0	9730.5	9751.7
27.5°	9135.1	9180.9	9455.7	9871.4	10329.4	10593.7	10551.4	10223.7	9952.5	9938.4	9945.4
30°	9829.2	9878.5	10139.2	10537.3	10988.2	11231.3	11143.3	10702.9	10283.6	10142.7	10142.7
32.5°	10562.0	10685.3	10949.5	11365.2	11717.5	11893.6	11759.8	11231.3	10674.7	10477.4	10466.8
35°	11516.7	11583.6	11844.3	12249.5	12513.7	12651.1	12393.9	11826.7	11185.5	10953.0	10921.3
37.5°	12450.3	12506.7	12809.6	13197.2	13517.8	13510.7	13161.9	12534.8	11819.7	11559.0	11537.8
40°	13405.0	13464.9	13810.2	14166.0	14486.6	14458.4	14035.6	13334.6	12573.6	12281.2	12337.5
42.5°	14232.9	14299.9	14690.9	15198.2	15487.1	15480.1	14990.4	14201.2	13408.5	13147.8	13197.2
45°	14986.8	15046.7	15501.2	16082.5	16505.3	16558.1	16022.6	15187.7	14373.8	14039.2	14053.2
47.5°	15518.8	15631.6	16107.2	16773.0	17347.3	17534.0	17009.0	16191.7	15254.6	14905.8	14927.0
50°	15924.0	15994.4	16512.3	17269.7	17995.5	18383.0	17960.3	17121.8	16135.3	15765.4	15814.7
52.5°	15973.3	16057.8	16621.5	17495.2	18425.3	19013.6	18805.8	18030.7	17033.7	16653.2	16758.9
55°	15571.7	15621.0	16293.9	17354.3	18594.4	19482.2	19535.0	18876.2	17889.8	17600.9	17671.4
57.5°	14426.7	14553.5	15406.1	16695.5	18361.9	19732.3	20081.1	19644.2	18756.5	18471.1	18583.8
60°	12548.9	12675.8	13531.8	15166.5	17484.7	19616.1	20532.0	20324.2	19542.1	19313.1	19373.0
62.5°	9832.7	9822.1	10882.5	12887.1	15740.8	19045.3	20866.7	20979.5	20317.1	20028.3	20119.9
65°	6373.1	6404.8	7430.0	9589.6	13109.1	17593.9	20940.7	21814.4	21078.1	20641.3	20708.2
66°	5126.0	5221.1	6091.3	8081.8	11766.8	16642.7	20718.8	22061.0	21310.6	20782.2	20813.9
67.5°	3783.7	3766.1	4481.3	6017.3	9395.8	14835.4	20024.7	22216.0	21574.9	20909.0	20923.1
70°	2159.6	2156.1	2409.7	3304.6	5524.1	10445.7	16878.7	21472.7	22110.4	21367.0	21328.2
72.5°	1578.3	1567.7	1603.0	1824.9	2695.1	5273.9	11643.5	18767.0	21835.6	21293.0	21183.8
75°	1324.6	1317.6	1310.6	1338.7	1511.4	2388.6	6179.3	13500.1	18946.7	19986.0	19873.2
77.5°	1081.6	1081.6	1085.1	1078.0	1085.1	1257.7	2561.2	7236.2	11537.8	12880.1	13193.6
80°	845.5	842.0	901.9	877.2	820.9	806.8	1134.4	2328.7	3829.5	3808.4	3142.5
82.5°	623.6	581.3	687.0	669.4	606.0	514.4	662.3	993.5	1278.8	831.4	616.5
85°	394.6	391.1	486.2	443.9	369.9	243.1	317.1	426.3	528.5	320.6	260.7
87.5°	70.5	66.9	155.0	112.7	112.7	70.5	88.1	116.3	172.6	119.8	88.1
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)