

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: P458123

Luminaire Tested: **GALN-SA9C-730-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-730-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57942 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

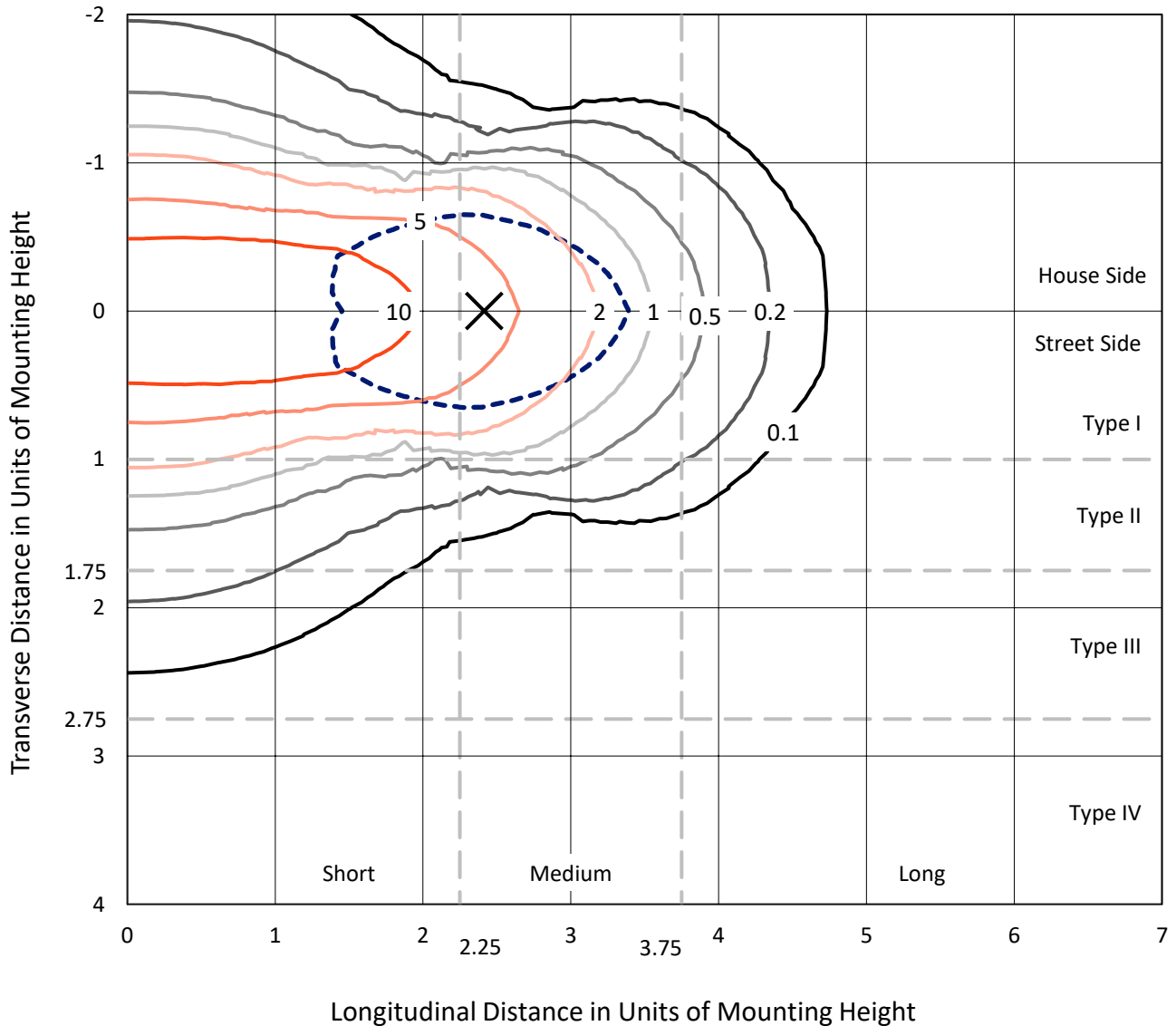
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

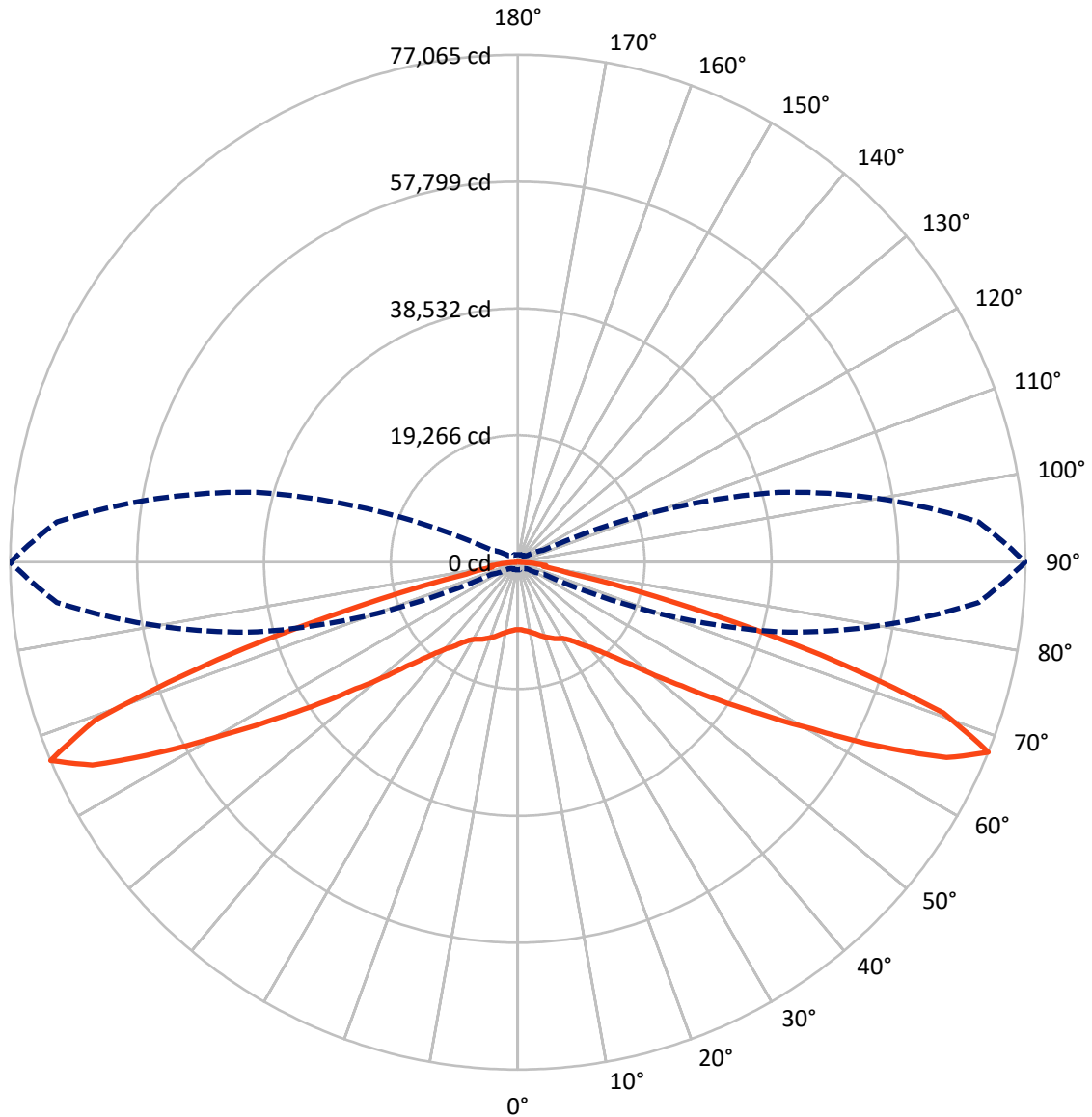
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28971.0	0.0	28971.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28971.0	0.0	28971.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	57942.0	0.0	57942.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1022.7	1.8
10°-20°	3272.0	5.6
20°-30°	5476.5	9.5
30°-40°	7419.2	12.8
40°-50°	9397.7	16.2
50°-60°	11740.1	20.3
60°-70°	13799.9	23.8
70°-80°	5279.1	9.1
80°-90°	534.8	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°	57942.0	100.0
0°-180°	57942.0	100.0

Coefficient of Utilization



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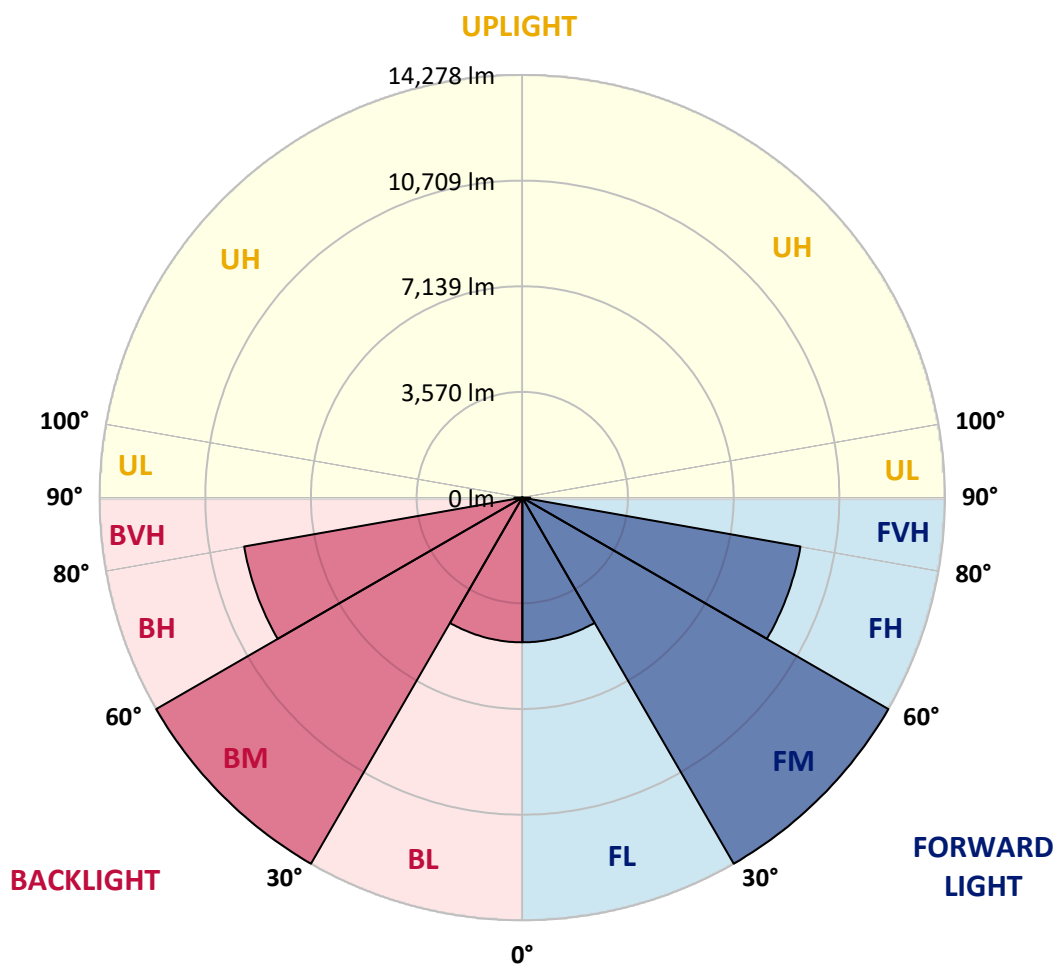
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4885.6	8.4			
FM (30°-60°)	14278.5	24.6			
FH (60°-80°)	9539.5	16.5			G4/12000
FVH (80°-90°)	267.4	0.5			G3/500
BL (0°-30°)	4885.6	8.4	B4/5000		
BM (30°-60°)	14278.5	24.6	B5		
BH (60°-80°)	9539.5	16.5	B5		G5
BVH (80°-90°)	267.4	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10257.5	10257.5	10257.5	10257.5	10257.5	10257.5	10257.5	10257.5	10257.5	10257.5	10257.5
2.5°	10389.1	10382.7	10385.9	10382.7	10392.3	10385.9	10347.4	10315.3	10289.6	10292.8	10283.2
5°	10610.5	10613.7	10616.9	10600.8	10623.3	10610.5	10549.5	10498.2	10446.8	10427.6	10421.2
7.5°	10793.4	10809.4	10819.0	10835.1	10873.6	10873.6	10841.5	10767.7	10655.4	10591.2	10588.0
10°	10976.2	10989.1	11017.9	11069.3	11133.5	11194.4	11181.6	11082.1	10937.7	10828.6	10803.0
12.5°	11040.4	11056.5	11152.7	11300.3	11444.7	11563.4	11563.4	11483.2	11297.1	11130.2	11082.1
15°	10815.8	10844.7	11017.9	11332.4	11711.0	11970.9	12028.6	11916.3	11717.4	11460.7	11403.0
17.5°	10369.8	10440.4	10693.9	11159.1	11788.0	12327.0	12493.9	12439.3	12182.6	11855.4	11788.0
20°	9891.8	9968.8	10238.3	10854.3	11723.8	12535.6	13020.0	13032.9	12715.2	12240.4	12140.9
22.5°	9365.6	9423.3	9769.8	10491.8	11531.3	12583.7	13472.4	13693.8	13263.9	12625.4	12484.2
25°	8775.2	8839.4	9201.9	9981.6	11168.7	12529.1	13886.3	14374.0	13838.2	13036.1	12856.4
27.5°	8210.5	8236.2	8624.4	9416.9	10690.7	12388.0	14191.1	14999.7	14473.5	13376.2	13148.4
30°	7668.3	7729.2	8072.6	8855.4	10142.0	12112.0	14454.2	15712.0	15156.9	13732.3	13440.4
32.5°	7094.0	7167.8	7539.9	8332.4	9593.4	11698.1	14614.7	16491.6	16109.8	14309.9	13998.6
35°	6542.1	6590.2	6965.6	7735.7	9057.6	11216.9	14643.5	17370.8	17338.7	15185.8	14771.9
37.5°	5977.4	6048.0	6426.6	7164.6	8489.7	10706.7	14499.2	18304.4	18821.0	16401.8	15955.8
40°	5435.2	5496.1	5868.3	6612.7	7844.8	10084.3	14155.9	19157.9	20550.4	17653.1	17021.0
42.5°	4844.8	4860.9	5268.3	6025.5	7212.7	9362.4	13661.7	19918.3	22478.7	19331.1	18545.1
45°	4174.2	4216.0	4594.6	5338.9	6487.6	8553.8	12991.2	20547.2	24923.5	21657.3	20585.7
47.5°	3503.7	3539.0	3885.5	4620.2	5695.1	7626.6	11958.0	21099.0	27432.6	24612.3	23207.0
50°	2849.1	2868.4	3150.7	3802.1	4803.1	6651.2	10677.9	21275.5	30268.9	28796.2	27002.6
52.5°	2252.4	2281.2	2496.2	3006.4	3850.2	5499.3	9295.0	20839.1	33580.0	33756.5	31228.2
55°	1825.6	1835.3	1995.7	2371.1	3009.6	4293.0	7626.6	19623.1	37141.5	40112.5	36888.0
57.5°	1572.2	1578.6	1668.4	1877.0	2316.5	3237.4	5916.5	17322.6	40340.3	47559.4	43414.1
60°	1427.8	1431.0	1482.3	1604.2	1835.3	2483.4	4238.4	14075.6	43497.5	55847.0	51525.1
62.5°	1337.9	1337.9	1373.2	1440.6	1552.9	1905.8	3070.5	10154.9	45660.0	64256.4	61522.8
65°	1251.3	1251.3	1277.0	1325.1	1386.1	1559.3	2268.4	6622.3	45605.5	70381.4	71578.2
67.5°	1151.8	1151.8	1171.1	1219.2	1254.5	1341.1	1751.8	4337.9	40966.0	70246.6	77064.7
70°	1033.1	1033.1	1058.8	1100.5	1129.4	1183.9	1382.9	2967.9	30095.6	59979.5	68536.5
72.5°	914.4	917.6	933.7	975.4	997.8	1029.9	1148.6	2079.1	18461.6	40840.9	47922.0
75°	782.9	789.3	805.3	847.0	866.3	879.1	969.0	1482.3	9339.9	22019.9	25071.1
77.5°	632.1	644.9	654.5	699.5	712.3	731.5	798.9	1071.6	4100.4	7912.1	7982.7
80°	462.0	478.1	506.9	548.7	558.3	571.1	609.6	760.4	1857.7	3612.8	3924.0
82.5°	340.1	362.6	327.3	381.8	381.8	365.8	429.9	510.1	853.5	3577.5	4280.1
85°	186.1	189.3	170.0	195.7	208.6	205.3	227.8	250.3	413.9	2387.1	2460.9
87.5°	44.9	48.1	51.3	61.0	73.8	73.8	80.2	70.6	134.8	773.2	442.8
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)