

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: P457746

Luminaire Tested: **GALN-SA9A-760-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457746
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-SA9A-760-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41385 lumens
Efficiency: N/A
Efficacy: 151.0 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

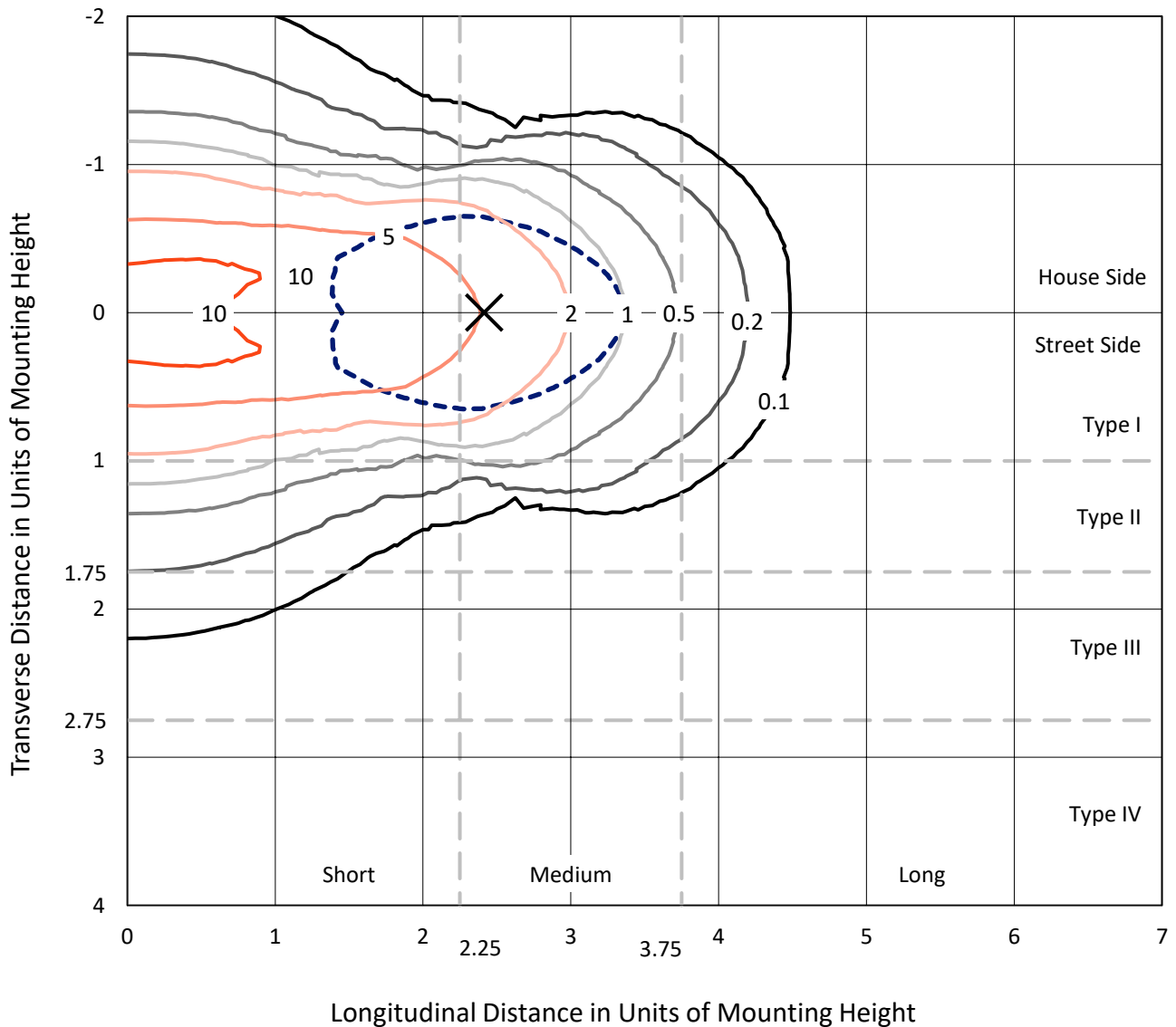
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

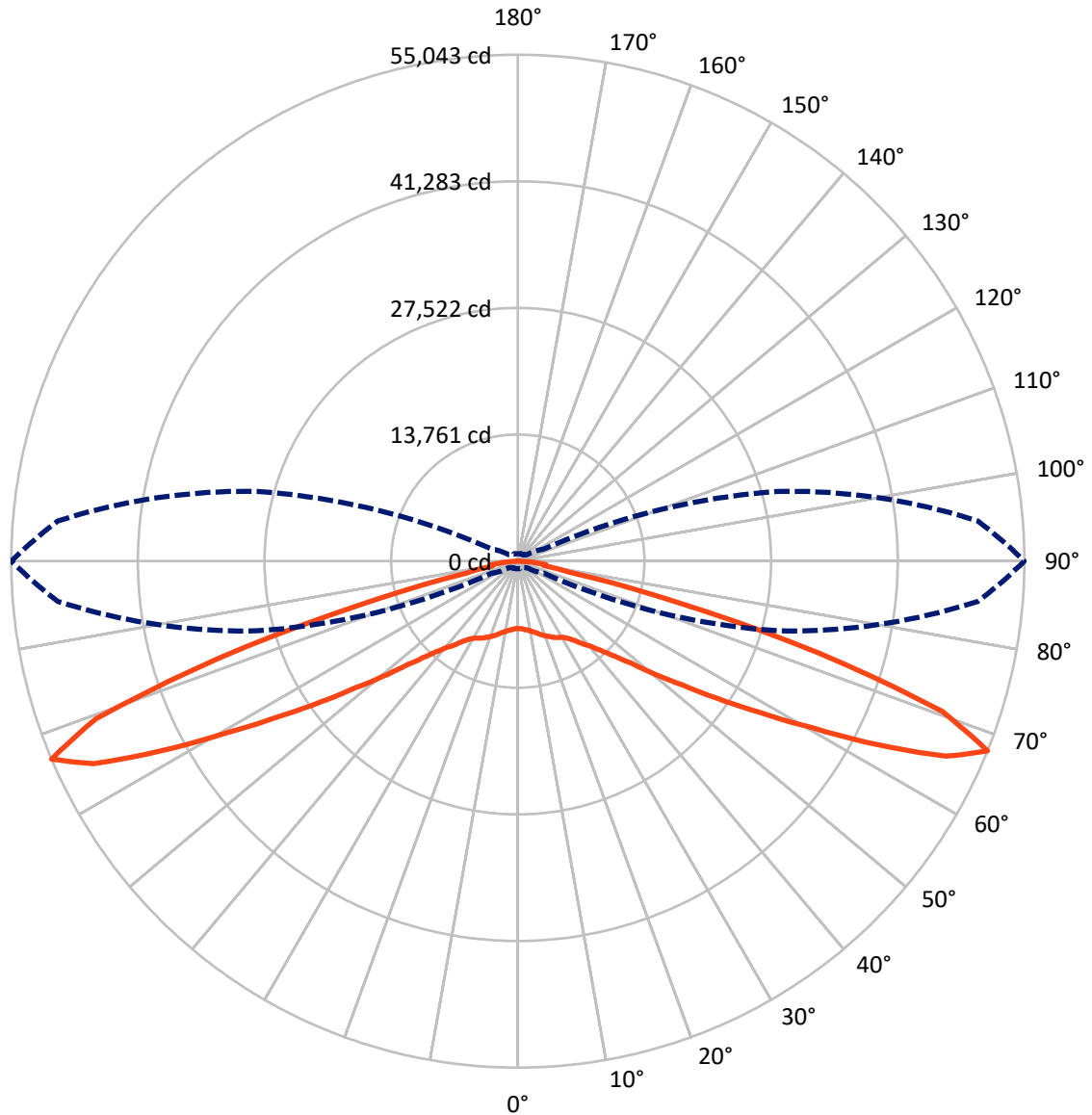
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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	20692.5	0.0	20692.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20692.5	0.0	20692.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	41385.0	0.0	41385.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.4	1.8
10°-20°	2337.0	5.6
20°-30°	3911.6	9.5
30°-40°	5299.2	12.8
40°-50°	6712.3	16.2
50°-60°	8385.3	20.3
60°-70°	9856.6	23.8
70°-80°	3770.6	9.1
80°-90°	382.0	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°	41385.0	100.0
0°-180°	41385.0	100.0



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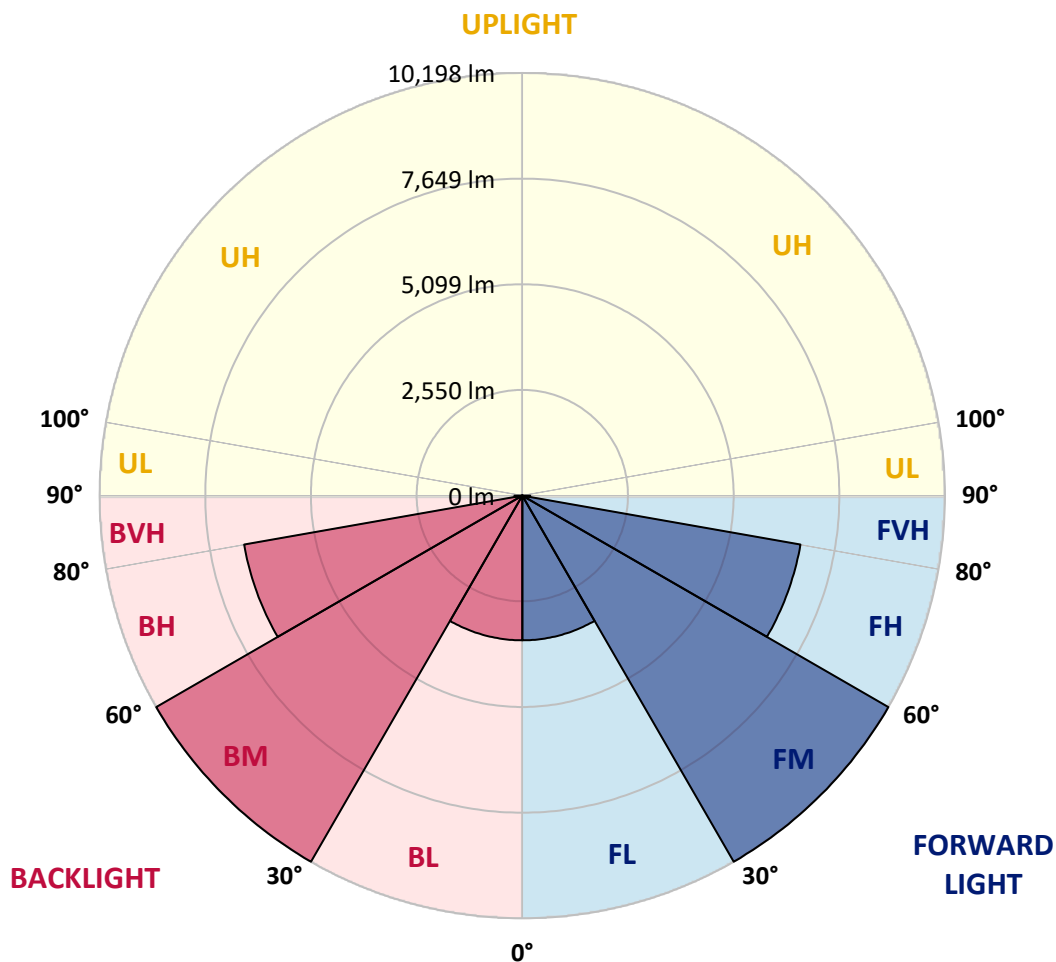
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3489.5	8.4			
FM (30°-60°)	10198.4	24.6			
FH (60°-80°)	6813.6	16.5			G3/7500
FVH (80°-90°)	191.0	0.5			G2/225
BL (0°-30°)	3489.5	8.4	B4/5000		
BM (30°-60°)	10198.4	24.6	B5		
BH (60°-80°)	6813.6	16.5	B5		G5
BVH (80°-90°)	191.0	0.5			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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7326.4	7326.4	7326.4	7326.4	7326.4	7326.4	7326.4	7326.4	7326.4	7326.4	7326.4
2.5°	7420.4	7415.8	7418.1	7415.8	7422.7	7418.1	7390.6	7367.7	7349.4	7351.6	7344.8
5°	7578.5	7580.8	7583.1	7571.6	7587.7	7578.5	7535.0	7498.3	7461.6	7447.9	7443.3
7.5°	7709.1	7720.6	7727.5	7738.9	7766.4	7766.4	7743.5	7690.8	7610.6	7564.8	7562.5
10°	7839.8	7848.9	7869.6	7906.2	7952.1	7995.6	7986.4	7915.4	7812.3	7734.3	7716.0
12.5°	7885.6	7897.1	7965.8	8071.2	8174.3	8259.1	8259.1	8201.8	8068.9	7949.8	7915.4
15°	7725.2	7745.8	7869.6	8094.1	8364.6	8550.2	8591.4	8511.2	8369.1	8185.8	8144.6
17.5°	7406.6	7457.1	7638.1	7970.4	8419.6	8804.6	8923.7	8884.8	8701.4	8467.7	8419.6
20°	7065.2	7120.2	7312.7	7752.7	8373.7	8953.5	9299.6	9308.7	9081.8	8742.7	8671.6
22.5°	6689.4	6730.6	6978.1	7493.7	8236.2	8987.9	9622.7	9780.8	9473.7	9017.7	8916.8
25°	6267.7	6313.5	6572.5	7129.4	7977.3	8948.9	9918.3	10266.6	9883.9	9311.0	9182.7
27.5°	5864.4	5882.7	6160.0	6726.0	7635.8	8848.1	10136.0	10713.5	10337.7	9553.9	9391.2
30°	5477.1	5520.6	5765.8	6325.0	7243.9	8651.0	10323.9	11222.3	10825.8	9808.3	9599.8
32.5°	5066.9	5119.6	5385.4	5951.4	6852.1	8355.4	10438.5	11779.1	11506.4	10220.8	9998.5
35°	4672.7	4707.1	4975.2	5525.2	6469.4	8011.6	10459.1	12407.0	12384.1	10846.4	10550.8
37.5°	4269.4	4319.8	4590.2	5117.3	6063.7	7647.3	10356.0	13073.9	13442.9	11715.0	11396.4
40°	3882.1	3925.6	4191.4	4723.1	5603.1	7202.7	10110.8	13683.5	14678.1	12608.7	12157.3
42.5°	3460.4	3471.9	3762.9	4303.7	5151.6	6687.1	9757.9	14226.6	16055.4	13807.2	13245.8
45°	2981.4	3011.2	3281.7	3813.3	4633.7	6109.6	9278.9	14675.8	17801.6	15468.7	14703.3
47.5°	2502.5	2527.7	2775.2	3300.0	4067.7	5447.3	8541.0	15069.9	19593.7	17579.3	16575.6
50°	2035.0	2048.7	2250.4	2715.6	3430.6	4750.6	7626.6	15196.0	21619.5	20567.6	19286.6
52.5°	1608.7	1629.4	1782.9	2147.3	2750.0	3927.9	6638.9	14884.3	23984.5	24110.5	22304.7
55°	1304.0	1310.8	1425.4	1693.5	2149.6	3066.2	5447.3	14015.8	26528.2	28650.3	26347.2
57.5°	1122.9	1127.5	1191.7	1340.6	1654.6	2312.3	4225.8	12372.7	28813.0	33969.3	31008.4
60°	1019.8	1022.1	1058.7	1145.8	1310.8	1773.7	3027.3	10053.5	31068.0	39888.6	36801.8
62.5°	955.6	955.6	980.8	1029.0	1109.2	1361.2	2193.1	7253.1	32612.6	45895.1	43942.6
65°	893.7	893.7	912.1	946.5	990.0	1113.7	1620.2	4730.0	32573.6	50269.8	51124.6
67.5°	822.7	822.7	836.5	870.8	896.0	957.9	1251.2	3098.3	29259.9	50173.6	55043.4
70°	737.9	737.9	756.2	786.0	806.7	845.6	987.7	2119.8	21495.8	42840.3	48952.1
72.5°	653.1	655.4	666.9	696.7	712.7	735.6	820.4	1485.0	13186.2	29170.5	34228.2
75°	559.2	563.7	575.2	605.0	618.7	627.9	692.1	1058.7	6671.0	15727.7	17907.0
77.5°	451.5	460.6	467.5	499.6	508.7	522.5	570.6	765.4	2928.7	5651.2	5701.6
80°	330.0	341.5	362.1	391.9	398.7	407.9	435.4	543.1	1326.9	2580.4	2802.7
82.5°	242.9	259.0	233.7	272.7	272.7	261.2	307.1	364.4	609.6	2555.2	3057.1
85°	132.9	135.2	121.5	139.8	149.0	146.7	162.7	178.7	295.6	1705.0	1757.7
87.5°	32.1	34.4	36.7	43.5	52.7	52.7	57.3	50.4	96.2	552.3	316.2
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)