

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: P459428

Luminaire Tested: **GALN-SA8D-735-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459428
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-SA8D-735-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58089 lumens
Efficiency: N/A
Efficacy: 117.8 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

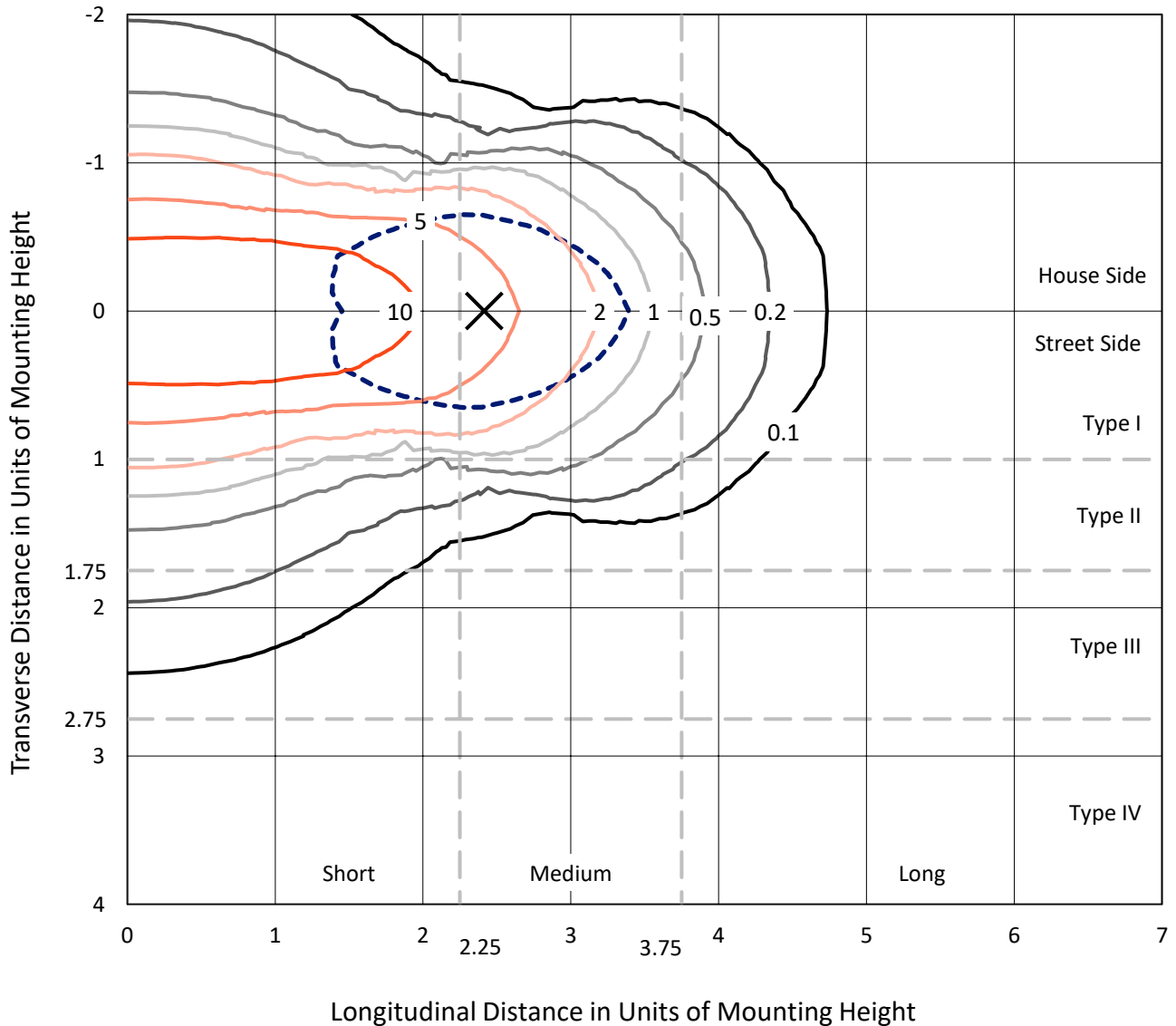
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

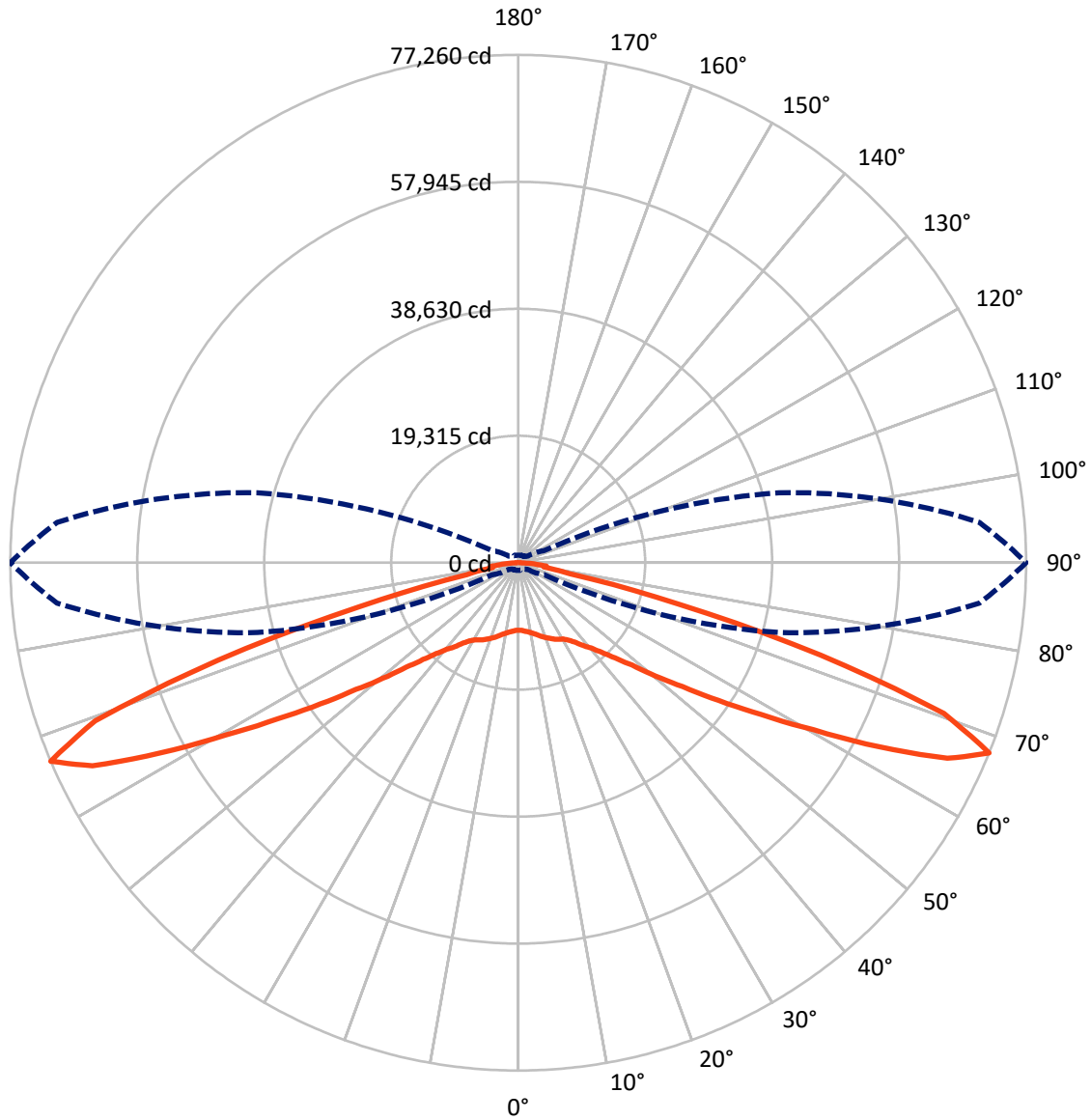
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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	29044.5	0.0	29044.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	29044.5	0.0	29044.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	58089.0	0.0	58089.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1025.3	1.8
10°-20°	3280.3	5.6
20°-30°	5490.4	9.5
30°-40°	7438.1	12.8
40°-50°	9421.5	16.2
50°-60°	11769.8	20.3
60°-70°	13834.9	23.8
70°-80°	5292.5	9.1
80°-90°	536.2	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°	58089.0	100.0
0°-180°	58089.0	100.0



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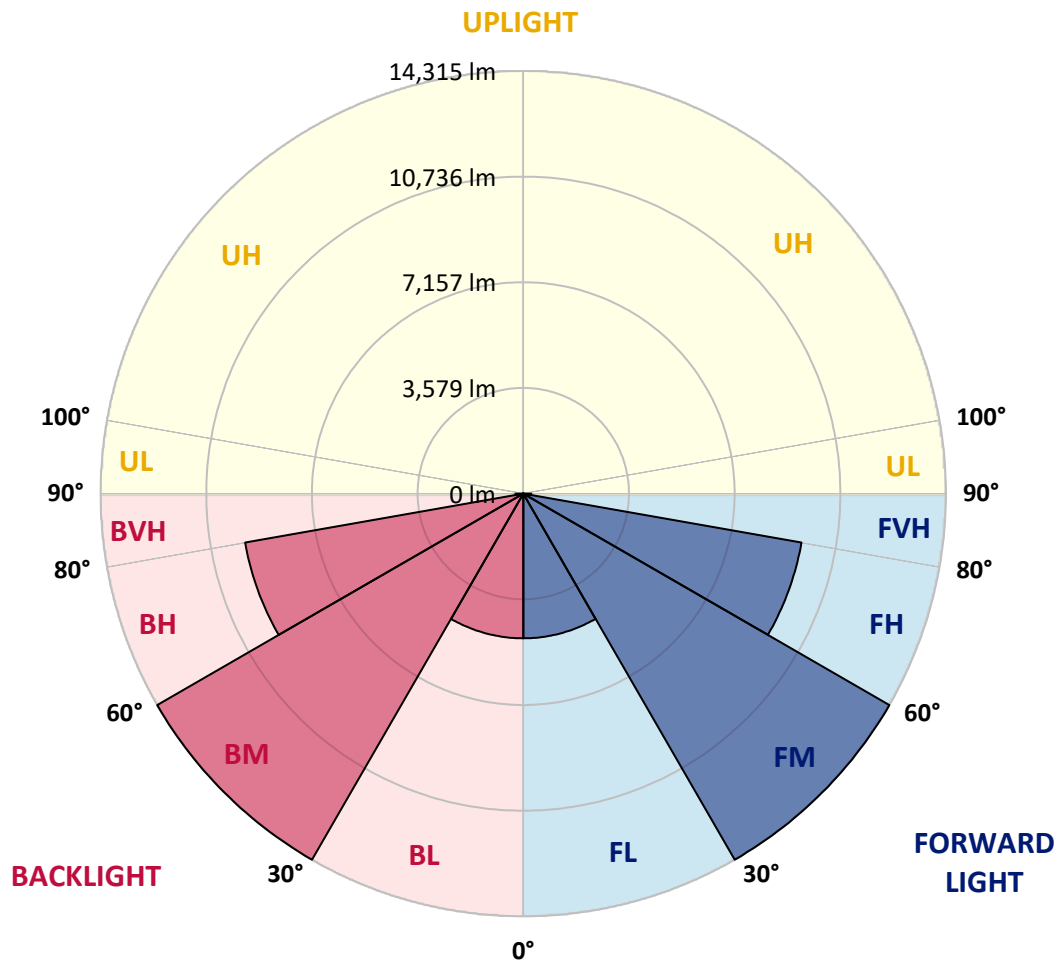
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4898.0	8.4			
FM (30°-60°)	14314.7	24.6			
FH (60°-80°)	9563.7	16.5			G4/12000
FVH (80°-90°)	268.1	0.5			G3/500
BL (0°-30°)	4898.0	8.4	B4/5000		
BM (30°-60°)	14314.7	24.6	B5		
BH (60°-80°)	9563.7	16.5	B5		G5
BVH (80°-90°)	268.1	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°	10283.6	10283.6	10283.6	10283.6	10283.6	10283.6	10283.6	10283.6	10283.6	10283.6	10283.6	10283.6
2.5°	10415.4	10409.0	10412.2	10409.0	10418.7	10412.2	10373.6	10341.5	10315.7	10318.9	10309.3	10309.3
5°	10637.4	10640.6	10643.8	10627.7	10650.3	10637.4	10576.3	10524.8	10473.3	10454.0	10447.6	10447.6
7.5°	10820.7	10836.8	10846.5	10862.6	10901.2	10901.2	10869.0	10795.0	10682.4	10618.1	10614.9	10614.9
10°	11004.1	11017.0	11045.9	11097.4	11161.7	11222.8	11210.0	11110.2	10965.5	10856.1	10830.4	10830.4
12.5°	11068.4	11084.5	11181.0	11329.0	11473.7	11592.7	11592.7	11512.3	11325.7	11158.5	11110.2	11110.2
15°	10843.3	10872.2	11045.9	11361.1	11740.7	12001.2	12059.1	11946.6	11747.1	11489.8	11431.9	11431.9
17.5°	10396.1	10466.9	10721.0	11187.4	11817.9	12358.3	12525.6	12470.9	12213.5	11885.4	11817.9	11817.9
20°	9916.9	9994.1	10264.3	10881.9	11753.6	12567.4	13053.1	13065.9	12747.5	12271.4	12171.7	12171.7
22.5°	9389.3	9447.2	9794.6	10518.4	11560.6	12615.6	13506.6	13728.6	13297.5	12657.4	12515.9	12515.9
25°	8797.5	8861.8	9225.3	10006.9	11197.1	12560.9	13921.6	14410.5	13873.3	13069.2	12889.0	12889.0
27.5°	8231.4	8257.1	8646.3	9440.8	10717.8	12419.4	14227.1	15037.7	14510.2	13410.1	13181.7	13181.7
30°	7687.7	7748.9	8093.0	8877.9	10167.8	12142.8	14490.9	15751.8	15195.4	13767.2	13474.5	13474.5
32.5°	7112.0	7185.9	7559.1	8353.6	9617.7	11727.8	14651.7	16533.5	16150.7	14346.2	14034.2	14034.2
35°	6558.7	6607.0	6983.3	7755.3	9080.5	11245.3	14680.7	17414.8	17382.7	15224.3	14809.4	14809.4
37.5°	5992.6	6063.3	6442.9	7182.7	8511.2	10733.9	14535.9	18350.9	18868.7	16443.4	15996.3	15996.3
40°	5449.0	5510.1	5883.2	6629.5	7864.7	10109.9	14191.8	19206.5	20602.5	17697.9	17064.2	17064.2
42.5°	4857.1	4873.2	5281.7	6040.8	7231.0	9386.1	13696.4	19968.8	22535.7	19380.2	18592.1	18592.1
45°	4184.8	4226.6	4606.2	5352.5	6504.0	8575.5	13024.1	20599.3	24986.8	21712.2	20637.9	20637.9
47.5°	3512.6	3547.9	3895.3	4631.9	5709.5	7645.9	11988.4	21152.5	27502.2	24674.8	23265.9	23265.9
50°	2856.4	2875.7	3158.7	3811.7	4815.3	6668.1	10704.9	21329.5	30345.7	28869.2	27071.1	27071.1
52.5°	2258.1	2287.0	2502.5	3014.0	3860.0	5513.3	9318.6	20892.0	33665.2	33842.1	31307.4	31307.4
55°	1830.3	1839.9	2000.7	2377.1	3017.2	4303.8	7645.9	19672.9	37235.7	40214.3	36981.6	36981.6
57.5°	1576.1	1582.6	1672.6	1881.7	2322.4	3245.6	5931.5	17366.6	40442.7	47680.1	43524.2	43524.2
60°	1431.4	1434.6	1486.1	1608.3	1839.9	2489.7	4249.2	14111.3	43607.8	55988.6	51655.8	51655.8
62.5°	1341.3	1341.3	1376.7	1444.3	1556.8	1910.7	3078.3	10180.6	45775.8	64419.4	61678.9	61678.9
65°	1254.5	1254.5	1280.2	1328.5	1389.6	1563.3	2274.2	6639.1	45721.2	70560.0	71759.8	71759.8
67.5°	1154.8	1154.8	1174.1	1222.3	1257.7	1344.6	1756.3	4348.9	41069.9	70424.9	77260.2	77260.2
70°	1035.8	1035.8	1061.5	1103.3	1132.3	1186.9	1386.4	2975.4	30172.0	60131.7	68710.4	68710.4
72.5°	916.7	920.0	936.0	977.9	1000.4	1032.5	1151.6	2084.4	18508.5	40944.5	48043.6	48043.6
75°	784.9	791.3	807.4	849.2	868.5	881.4	971.4	1486.1	9363.6	22075.7	25134.7	25134.7
77.5°	633.7	646.5	656.2	701.2	714.1	733.4	800.9	1074.4	4110.9	7932.2	8003.0	8003.0
80°	463.2	479.3	508.2	550.0	559.7	572.6	611.2	762.3	1862.4	3621.9	3933.9	3933.9
82.5°	341.0	363.5	328.1	382.8	382.8	366.7	431.0	511.4	855.6	3586.5	4291.0	4291.0
85°	186.6	189.8	170.5	196.2	209.1	205.9	228.4	250.9	414.9	2393.2	2467.2	2467.2
87.5°	45.0	48.2	51.5	61.1	74.0	74.0	80.4	70.8	135.1	775.2	443.9	443.9
90°	0.0	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)