

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: P456557

Luminaire Tested: **GALN-SA7D-750-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456557
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-SA7D-750-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53787 lumens
Efficiency: N/A
Efficacy: 124.2 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

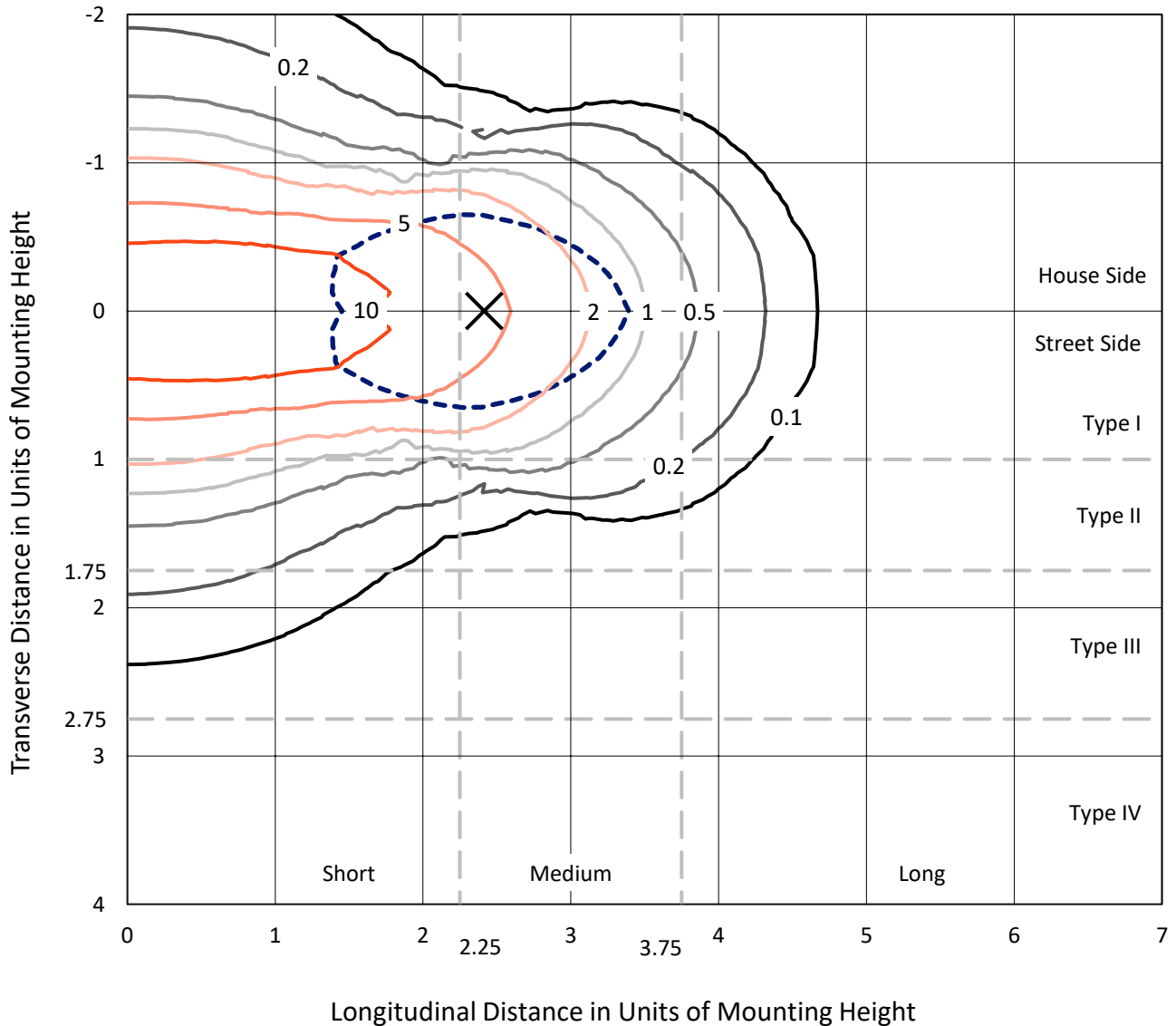
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

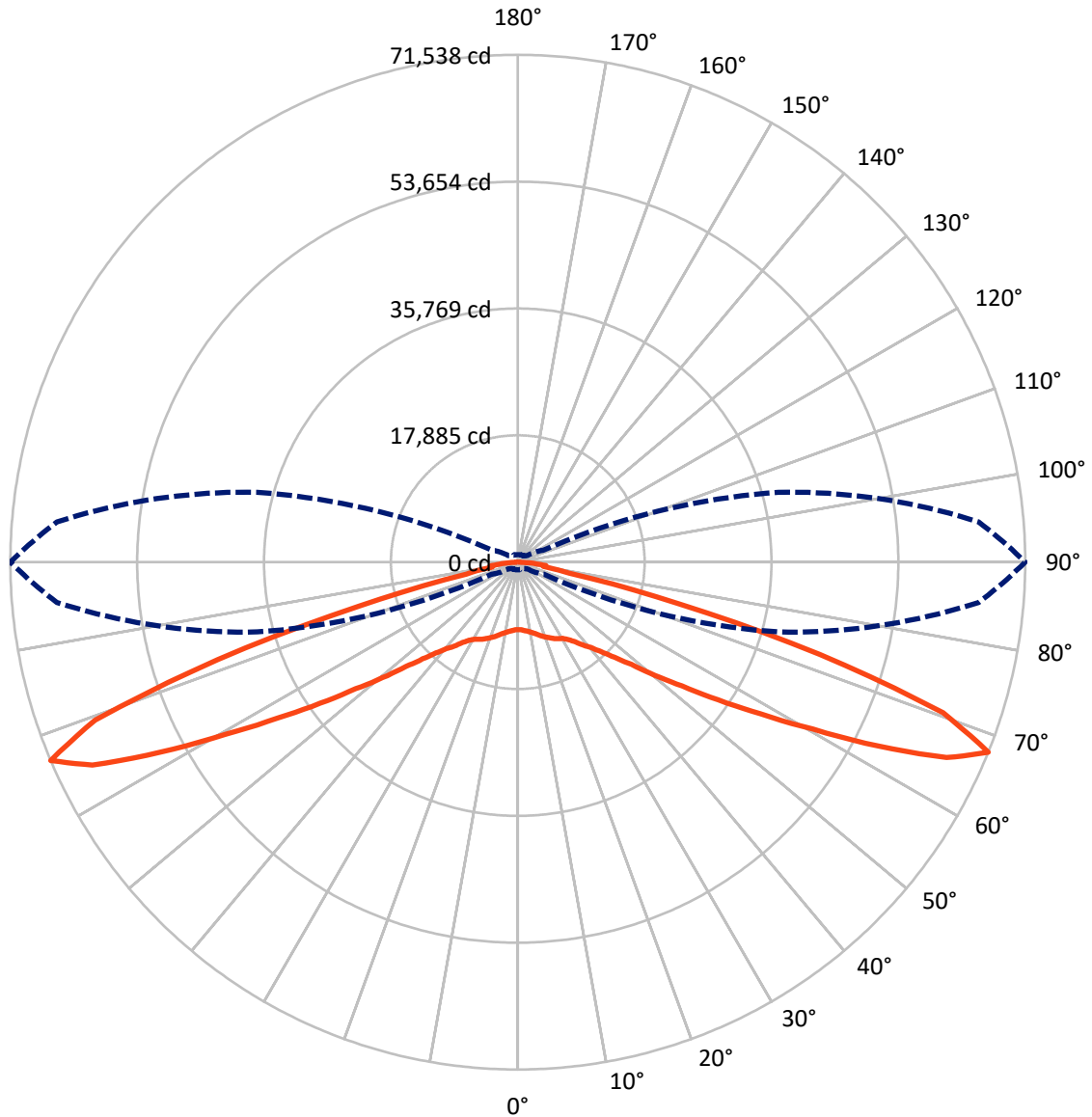
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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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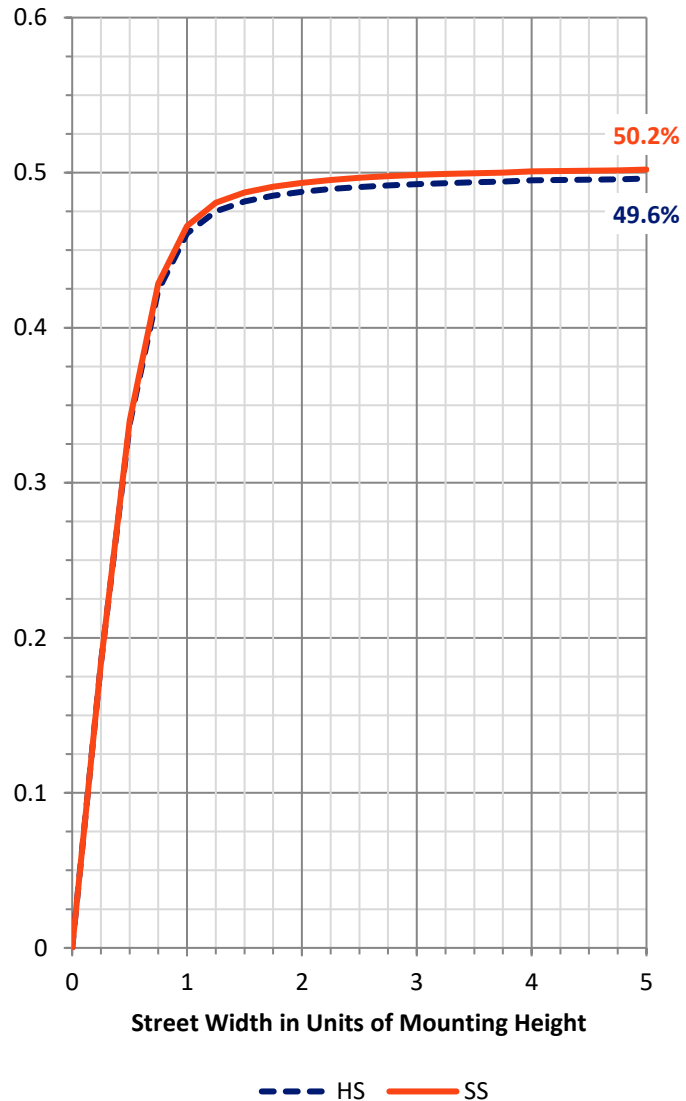
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26893.5	0.0	26893.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26893.5	0.0	26893.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	53787.0	0.0	53787.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	949.3	1.8
10°-20°	3037.4	5.6
20°-30°	5083.8	9.5
30°-40°	6887.2	12.8
40°-50°	8723.8	16.2
50°-60°	10898.2	20.3
60°-70°	12810.3	23.8
70°-80°	4900.5	9.1
80°-90°	496.5	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°	53787.0	100.0
0°-180°	53787.0	100.0



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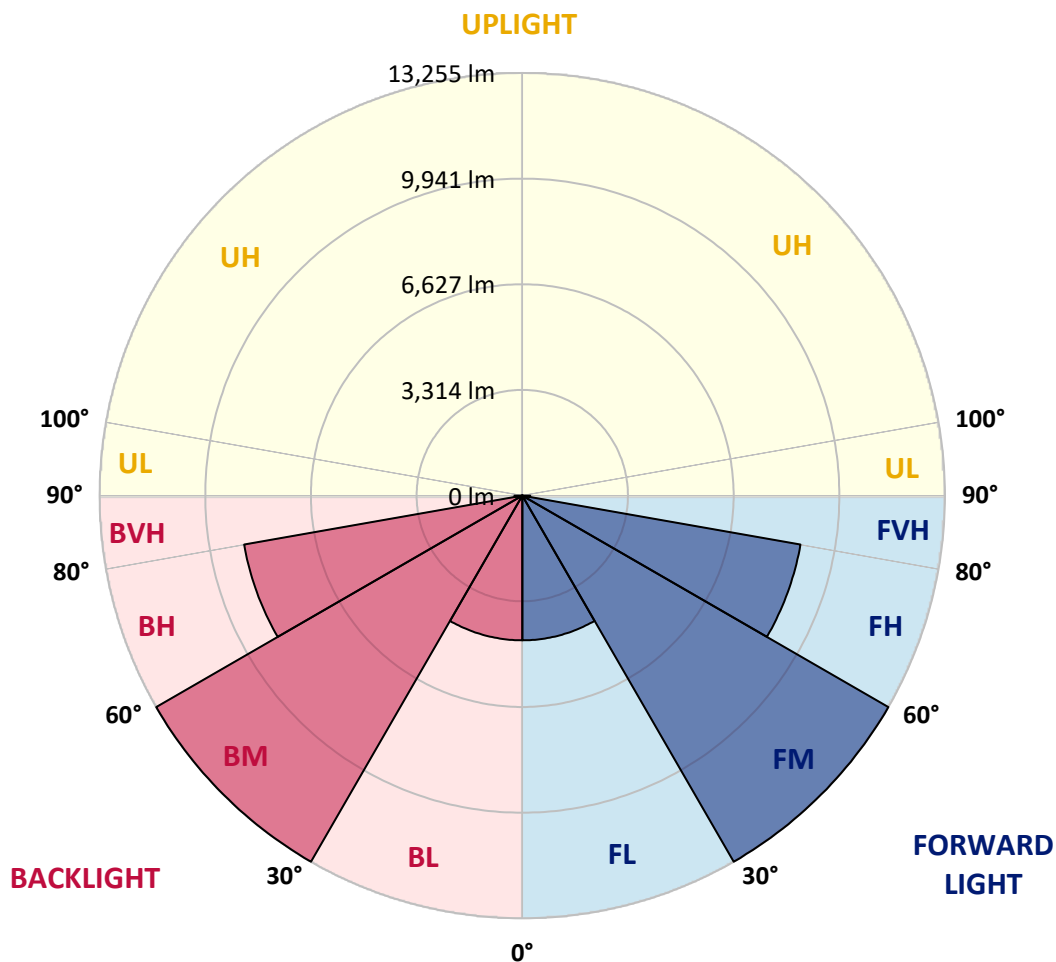
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4535.3	8.4			
FM	(30°-60°)	13254.6	24.6			
FH	(60°-80°)	8855.4	16.5			G4/12000
FVH	(80°-90°)	248.2	0.5			G3/500
BL	(0°-30°)	4535.3	8.4	B4/5000		
BM	(30°-60°)	13254.6	24.6	B5		
BH	(60°-80°)	8855.4	16.5	B5		G5
BVH	(80°-90°)	248.2	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°	9522.0	9522.0	9522.0	9522.0	9522.0	9522.0	9522.0	9522.0	9522.0	9522.0	9522.0
2.5°	9644.1	9638.1	9641.1	9638.1	9647.1	9641.1	9605.4	9575.6	9551.8	9554.7	9545.8
5°	9849.6	9852.6	9855.6	9840.7	9861.5	9849.6	9793.0	9745.4	9697.7	9679.8	9673.9
7.5°	10019.4	10034.3	10043.2	10058.1	10093.8	10093.8	10064.0	9995.5	9891.3	9831.7	9828.7
10°	10189.1	10201.1	10227.9	10275.5	10335.1	10391.7	10379.8	10287.4	10153.4	10052.1	10028.3
12.5°	10248.7	10263.6	10352.9	10490.0	10624.0	10734.2	10734.2	10659.7	10487.0	10332.1	10287.4
15°	10040.2	10067.0	10227.9	10519.7	10871.2	11112.4	11166.1	11061.8	10877.1	10638.9	10585.3
17.5°	9626.2	9691.7	9927.0	10358.9	10942.7	11443.0	11597.9	11547.3	11309.0	11005.2	10942.7
20°	9182.4	9253.9	9504.1	10076.0	10883.1	11636.6	12086.4	12098.3	11803.4	11362.6	11270.3
22.5°	8694.0	8747.6	9069.3	9739.4	10704.4	11681.3	12506.3	12711.8	12312.7	11720.0	11589.0
25°	8145.9	8205.5	8542.1	9265.8	10367.8	11630.7	12890.6	13343.3	12845.9	12101.3	11934.5
27.5°	7621.7	7645.6	8006.0	8741.6	9924.1	11499.6	13173.5	13924.1	13435.6	12417.0	12205.5
30°	7118.4	7175.0	7493.7	8220.4	9414.8	11243.5	13417.7	14585.3	14070.0	12747.6	12476.6
32.5°	6585.3	6653.8	6999.3	7734.9	8905.4	10859.3	13566.7	15309.0	14954.6	13283.7	12994.8
35°	6073.0	6117.7	6466.1	7180.9	8408.0	10412.5	13593.5	16125.1	16095.3	14096.8	13712.6
37.5°	5548.8	5614.3	5965.8	6650.8	7880.9	9939.0	13459.4	16991.8	17471.3	15225.6	14811.6
40°	5045.4	5102.0	5447.5	6138.5	7282.2	9361.1	13140.7	17784.1	19076.7	16387.2	15800.5
42.5°	4497.4	4512.3	4890.5	5593.5	6695.5	8691.0	12682.1	18490.0	20866.7	17944.9	17215.2
45°	3874.9	3913.6	4265.1	4956.1	6022.3	7940.4	12059.6	19073.7	23136.3	20104.3	19109.5
47.5°	3252.4	3285.2	3606.9	4288.9	5286.7	7079.7	11100.5	19586.0	25465.4	22847.4	21542.8
50°	2644.8	2662.7	2924.8	3529.4	4458.7	6174.2	9912.1	19749.8	28098.3	26731.2	25066.3
52.5°	2090.8	2117.6	2317.2	2790.8	3574.1	5105.0	8628.5	19344.8	31172.0	31335.8	28988.9
55°	1694.7	1703.6	1852.6	2201.0	2793.7	3985.1	7079.7	18215.9	34478.1	37236.1	34242.8
57.5°	1459.4	1465.4	1548.8	1742.4	2150.4	3005.2	5492.2	16080.4	37447.5	44149.0	40300.9
60°	1325.4	1328.4	1376.0	1489.2	1703.6	2305.3	3934.5	13066.3	40378.3	51842.2	47830.3
62.5°	1242.0	1242.0	1274.8	1337.3	1441.5	1769.2	2850.3	9426.7	42385.7	59648.6	57111.0
65°	1161.6	1161.6	1185.4	1230.1	1286.7	1447.5	2105.7	6147.4	42335.1	65334.4	66445.3
67.5°	1069.2	1069.2	1087.1	1131.8	1164.6	1245.0	1626.2	4026.8	38028.3	65209.3	71538.4
70°	959.0	959.0	982.9	1021.6	1048.4	1099.0	1283.7	2755.0	27937.5	55678.4	63621.8
72.5°	848.8	851.8	866.7	905.4	926.3	956.1	1066.3	1930.0	17137.8	37912.2	44485.5
75°	726.7	732.7	747.6	786.3	804.2	816.1	899.5	1376.0	8670.1	20440.8	23273.3
77.5°	586.7	598.7	607.6	649.3	661.2	679.1	741.6	994.8	3806.4	7344.8	7410.3
80°	428.9	443.8	470.6	509.3	518.2	530.2	565.9	705.9	1724.5	3353.7	3642.6
82.5°	315.7	336.6	303.8	354.4	354.4	339.5	399.1	473.6	792.3	3320.9	3973.2
85°	172.7	175.7	157.9	181.7	193.6	190.6	211.5	232.3	384.2	2215.9	2284.4
87.5°	41.7	44.7	47.7	56.6	68.5	68.5	74.5	65.5	125.1	717.8	411.0
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)