

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: P532441

Luminaire Tested: **GALN-SA7D-740-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34821 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

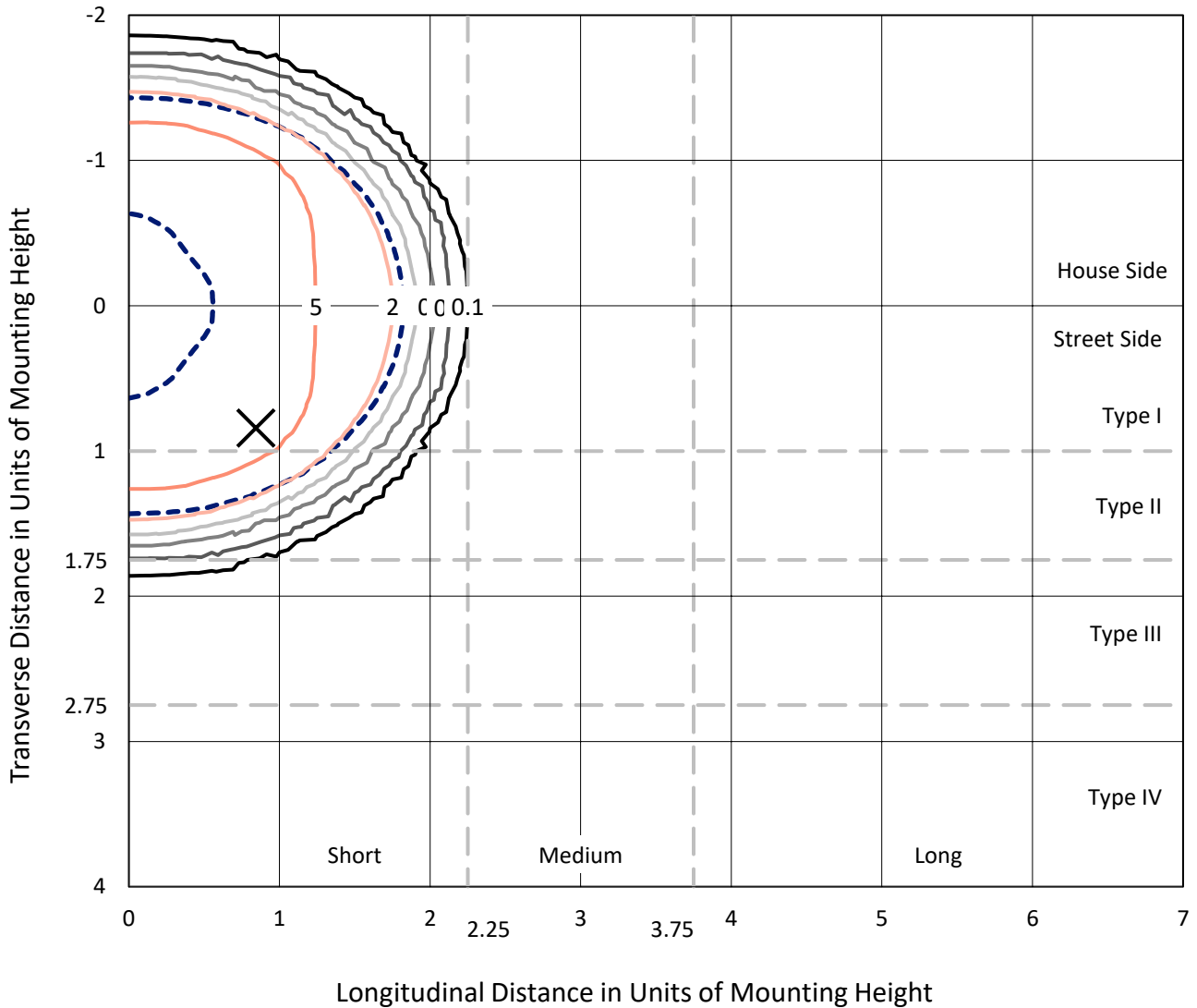
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532441
 CATALOG NUMBER: GALN-SA7D-740-U-RW-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

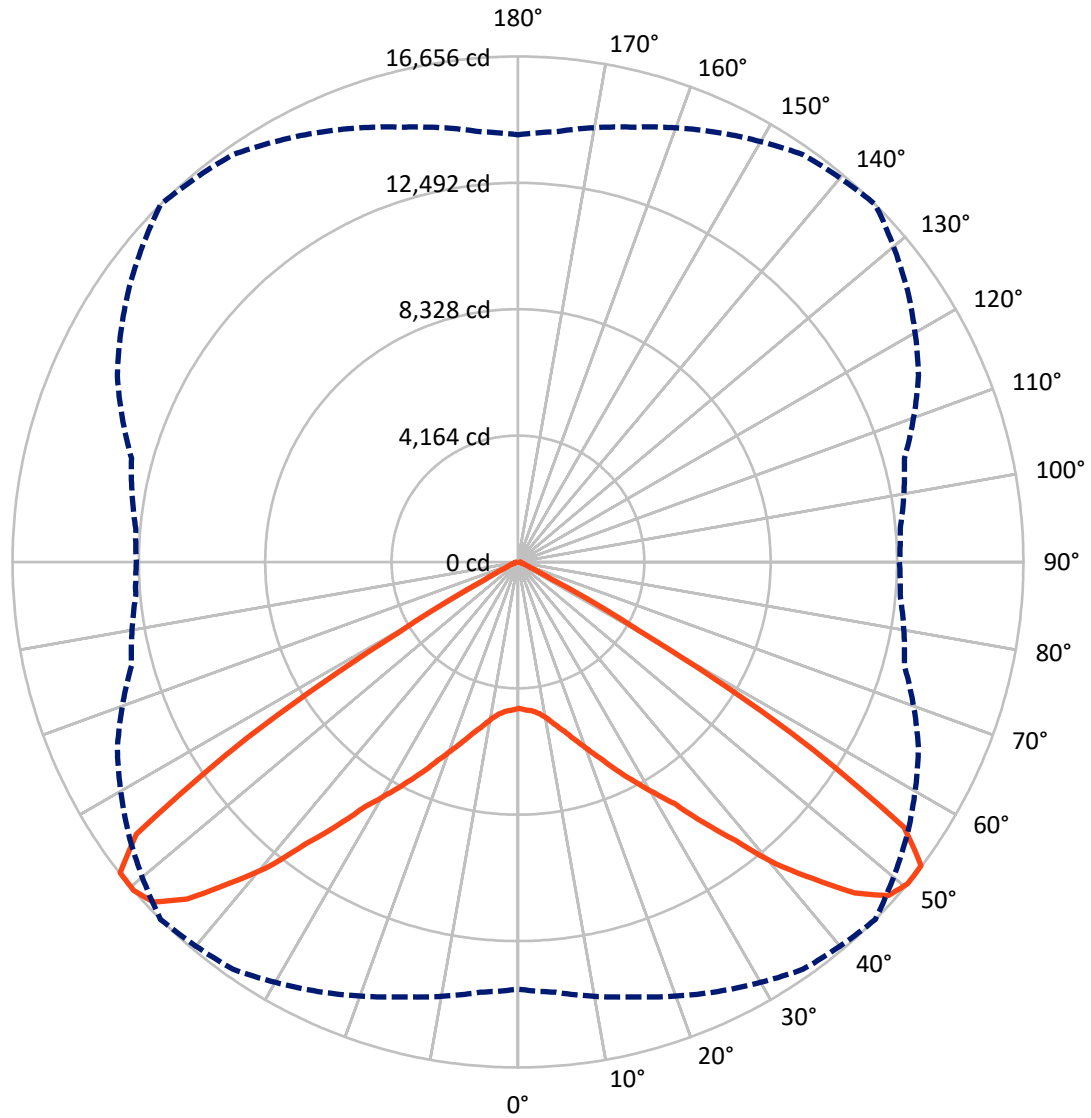
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type V - Short - N/A

REPORT NUMBER: P532441
CATALOG NUMBER: GALN-SA7D-740-U-RW-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P532441

CATALOG NUMBER: GALN-SA7D-740-U-RW-GRSBK

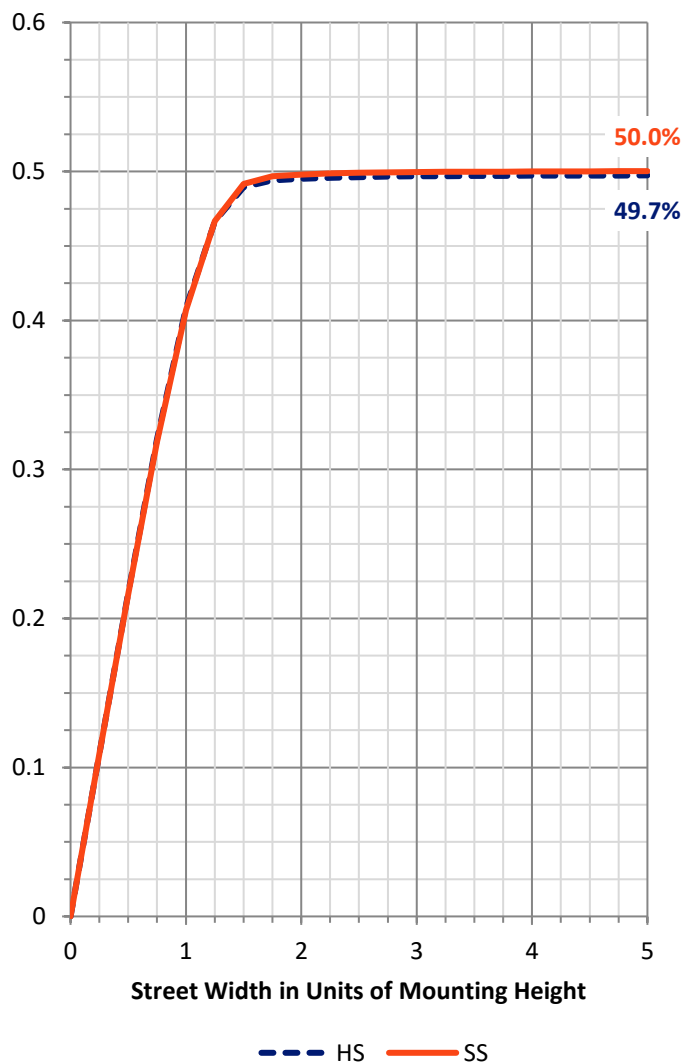
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17410.5	0.0	17410.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17410.5	0.0	17410.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34821.0	0.0	34821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.3	1.4
10°-20°	1655.3	4.8
20°-30°	3380.7	9.7
30°-40°	6447.0	18.5
40°-50°	10864.2	31.2
50°-60°	10361.0	29.8
60°-70°	1446.3	4.2
70°-80°	138.3	0.4
80°-90°	47.8	0.1
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°	34821.0	100.0
0°-180°	34821.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532441

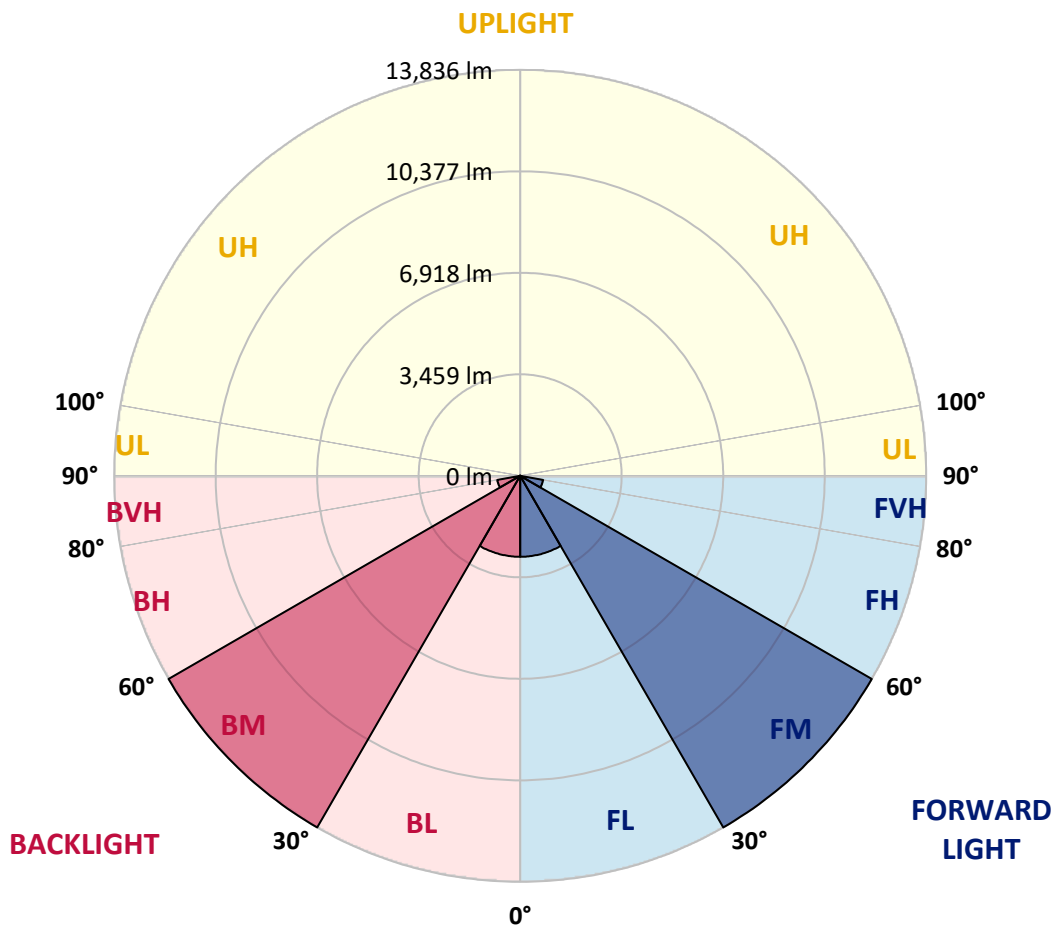
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2758.1	7.9			
FM (30°-60°)	13836.1	39.7			
FH (60°-80°)	792.3	2.3			G1/1800
FVH (80°-90°)	23.9	0.1			G1/100
BL (0°-30°)	2758.1	7.9	B4/5000		
BM (30°-60°)	13836.1	39.7	B5		
BH (60°-80°)	792.3	2.3	B2/1000		G1/1800
BVH (80°-90°)	23.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4827.5	4827.5	4827.5	4827.5	4827.5	4827.5	4827.5	4827.5	4827.5	4827.5	4827.5
2.5°	4810.0	4810.0	4804.1	4851.0	4827.5	4880.3	4874.4	4892.0	4909.6	4903.7	4950.6
5°	4769.0	4763.1	4763.1	4815.8	4868.6	4927.1	4979.9	5015.0	5073.6	5073.6	5132.2
7.5°	4810.0	4780.7	4821.7	4845.1	4944.7	5044.3	5132.2	5202.5	5337.3	5384.1	5366.5
10°	4821.7	4856.8	4886.1	4956.4	5079.5	5231.8	5308.0	5483.7	5636.0	5741.5	5764.9
12.5°	4897.9	4950.6	5032.6	5202.5	5313.8	5513.0	5618.5	5788.4	5999.3	6116.5	6198.5
15°	5044.3	5061.9	5167.4	5384.1	5624.3	5805.9	5970.0	6093.0	6298.1	6432.8	6438.7
17.5°	5231.8	5308.0	5454.4	5659.5	5911.4	6180.9	6309.8	6444.5	6520.7	6702.3	6743.3
20°	5606.8	5618.5	5759.1	6028.6	6344.9	6591.0	6684.7	6755.1	6725.8	6913.2	6948.4
22.5°	5958.3	5970.0	6145.8	6509.0	6848.8	7059.7	7100.7	7059.7	6971.8	7106.6	7118.3
25°	6315.7	6421.1	6550.0	6913.2	7335.1	7616.3	7622.1	7510.8	7329.2	7352.6	7411.2
27.5°	6872.2	6948.4	7083.1	7417.1	7879.9	8196.3	8143.6	8008.8	7774.5	7792.0	7774.5
30°	7522.5	7592.8	7704.2	8131.8	8471.6	8817.3	8893.5	8764.6	8413.1	8336.9	8424.8
32.5°	8307.6	8407.2	8612.3	9004.8	9291.9	9502.8	9555.5	9508.6	9180.5	9151.3	9209.8
35°	9262.6	9397.3	9584.8	9930.5	10164.8	10545.6	10545.6	10387.4	10088.6	10123.8	10117.9
37.5°	10270.3	10469.5	10762.4	11113.9	11430.3	11635.3	11570.9	11436.1	11137.3	11061.2	11137.3
40°	11535.7	11635.3	12004.4	12461.4	12848.1	13082.4	12807.1	12514.1	11799.4	11910.7	12115.7
42.5°	12689.9	12848.1	13129.3	13633.1	14072.5	14265.9	13937.8	13357.8	12496.6	12408.7	12561.0
45°	13674.1	13844.1	14213.1	14933.8	15396.6	15566.5	14840.0	13902.6	12918.4	12695.7	12760.2
47.5°	14330.3	14418.2	14933.8	15619.2	16041.1	16427.7	15384.9	14277.6	13117.6	12695.7	12672.3
50°	14078.4	14230.7	14834.2	15613.4	16380.9	16656.2	15660.2	14564.7	13182.0	12643.0	12572.7
52.5°	12502.4	12766.1	13439.8	14488.5	15648.5	16632.8	16041.1	14470.9	13158.6	12695.7	12801.2
55°	8700.1	8706.0	9526.2	11072.9	13123.4	15443.5	15484.5	14576.4	13310.9	13023.8	13029.7
57.5°	3497.6	3673.4	4300.3	5852.8	7745.2	10604.2	12607.9	13521.8	13328.5	13258.2	13439.8
60°	884.7	890.5	1083.9	1652.1	2724.3	4546.3	6602.7	8934.5	10287.8	10750.7	10815.1
62.5°	451.1	457.0	503.8	585.9	744.1	1218.6	2167.7	3439.0	4892.0	5630.2	5823.5
65°	369.1	369.1	398.4	439.4	445.3	468.7	562.4	802.6	1165.9	1324.1	1341.6
67.5°	281.2	281.2	304.7	328.1	339.8	333.9	322.2	333.9	404.2	386.7	375.0
70°	175.8	181.6	193.3	216.8	228.5	234.3	240.2	251.9	287.1	298.8	287.1
72.5°	105.5	105.5	111.3	128.9	146.5	158.2	175.8	187.5	205.1	234.3	228.5
75°	46.9	46.9	58.6	76.2	93.7	111.3	128.9	146.5	158.2	175.8	181.6
77.5°	11.7	17.6	29.3	52.7	70.3	93.7	117.2	134.7	146.5	146.5	140.6
80°	5.9	5.9	23.4	41.0	76.2	99.6	128.9	140.6	158.2	146.5	128.9
82.5°	5.9	5.9	23.4	41.0	70.3	99.6	134.7	152.3	164.0	146.5	123.0
85°	0.0	5.9	17.6	35.2	58.6	70.3	58.6	41.0	23.4	23.4	17.6
87.5°	0.0	0.0	5.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)