

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: P648520

Luminaire Tested: **GALN-SA7B-835-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32547.7 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

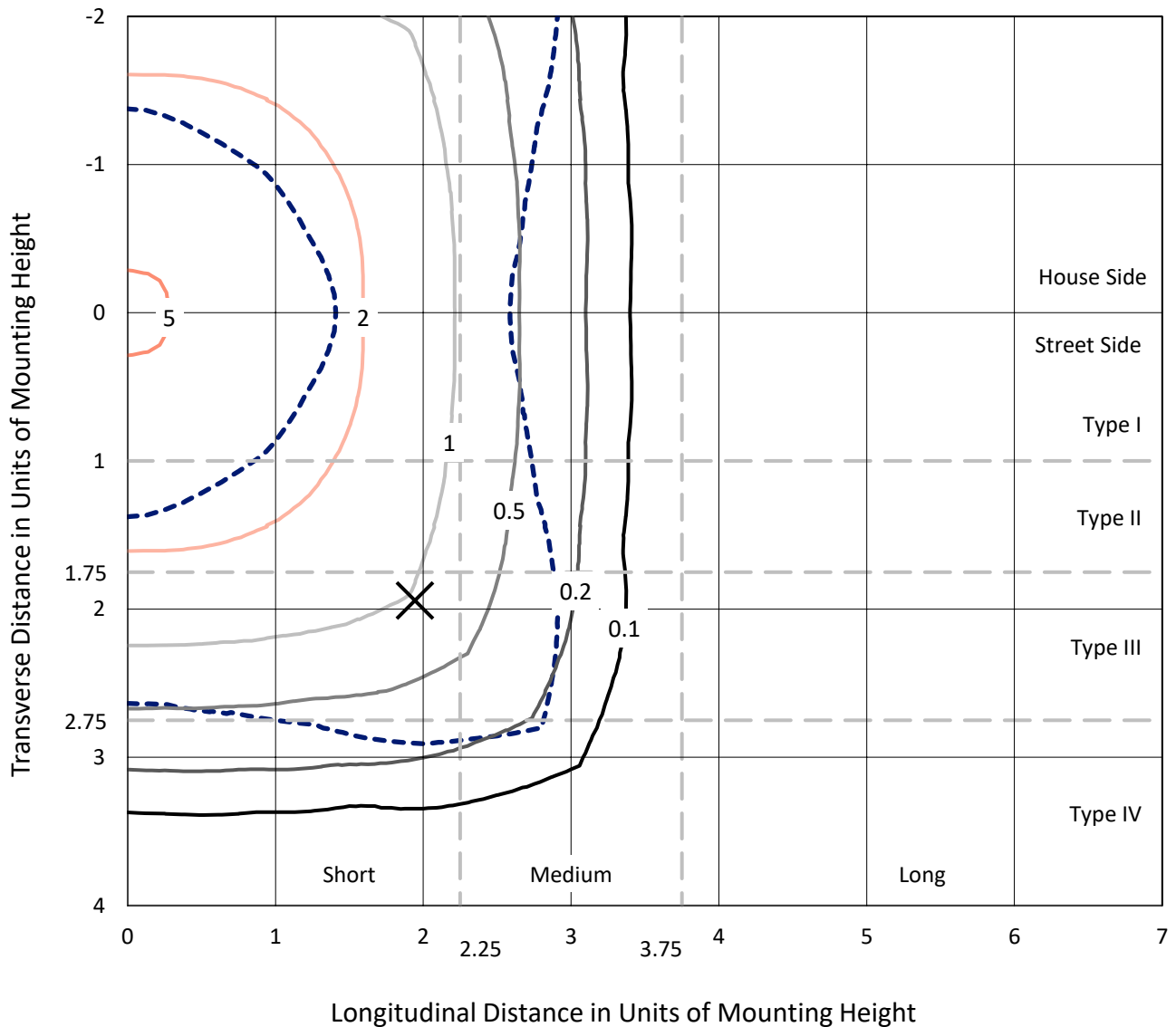
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

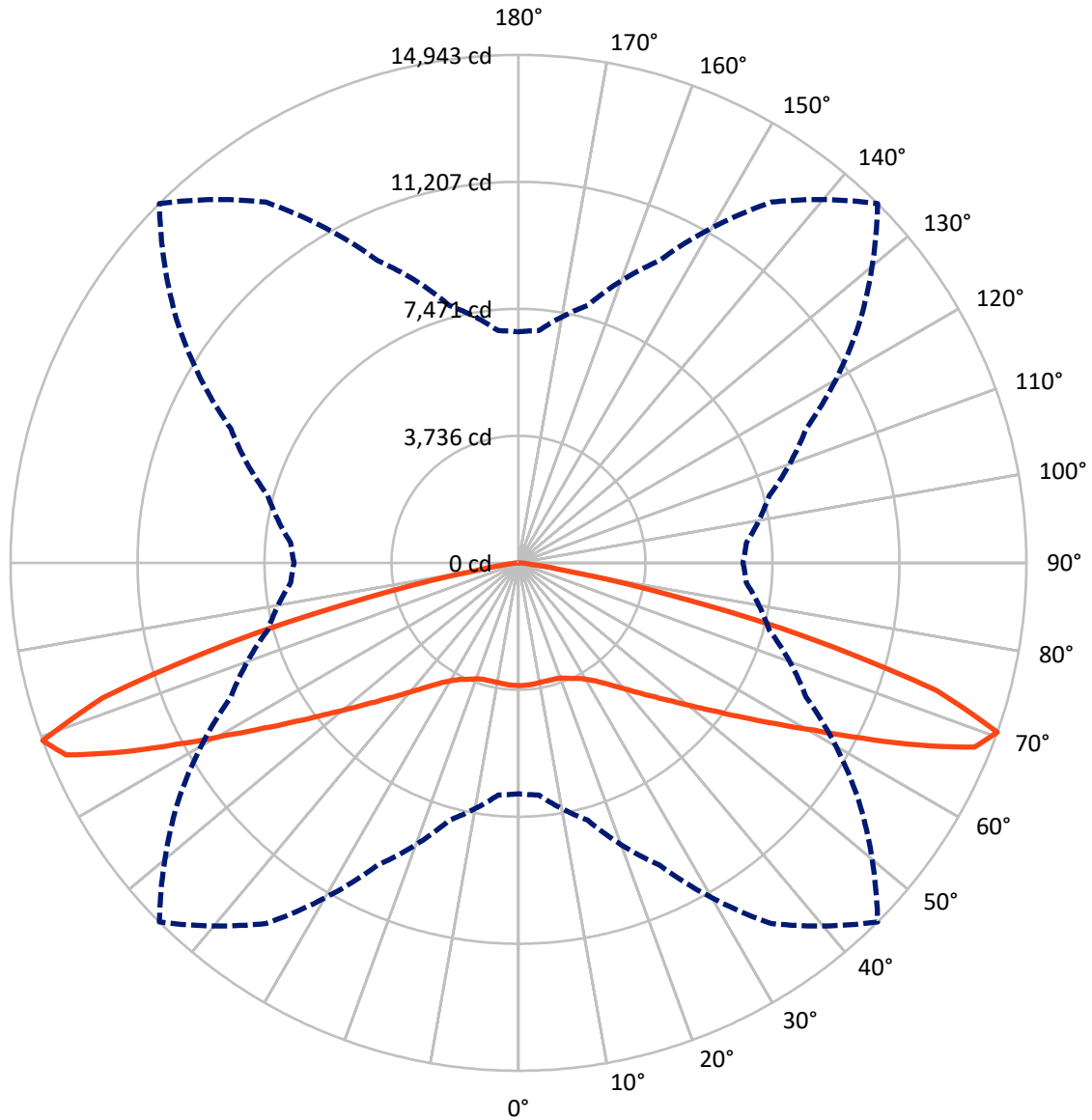
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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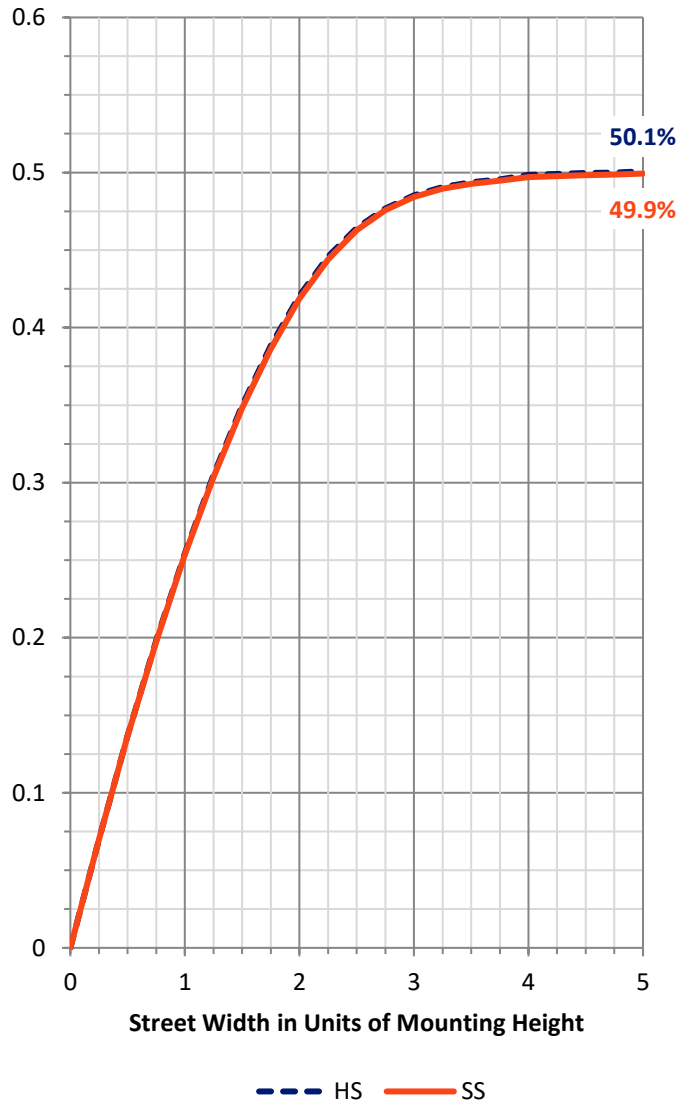
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16273.9	0.0	16273.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16273.9	0.0	16273.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	32547.7	0.0	32547.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.7	1.1
10°-20°	1005.7	3.1
20°-30°	1720.1	5.3
30°-40°	2730.2	8.4
40°-50°	4404.5	13.5
50°-60°	7166.2	22.0
60°-70°	10388.5	31.9
70°-80°	4608.0	14.2
80°-90°	181.7	0.6
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°	32547.7	100.0
0°-180°	32547.7	100.0

Coefficient of Utilization



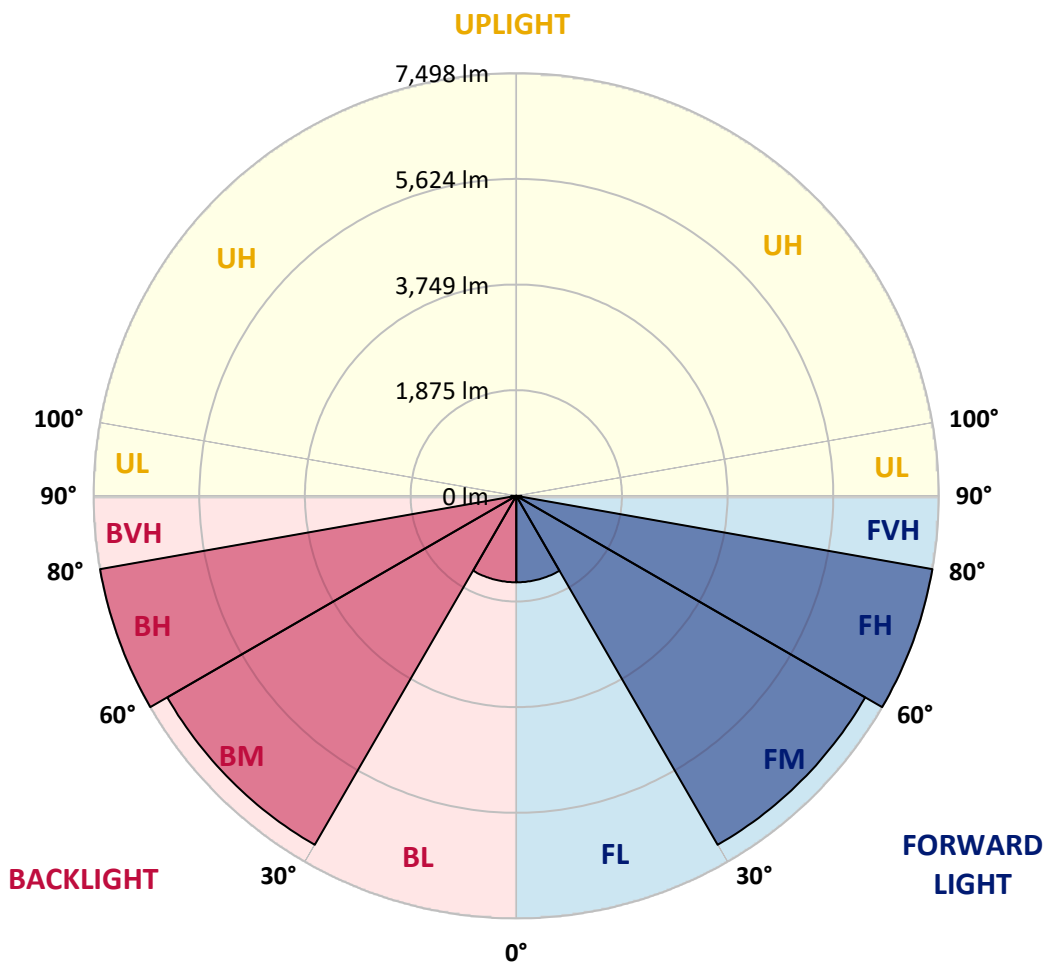
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1534.3	4.7			
FM (30°-60°)	7150.5	22.0			
FH (60°-80°)	7498.2	23.0			G3/7500
FVH (80°-90°)	90.9	0.3			G1/100
BL (0°-30°)	1534.3	4.7	B3/2500		
BM (30°-60°)	7150.5	22.0	B4/8500		
BH (60°-80°)	7498.2	23.0	B5		G3/7500
BVH (80°-90°)	90.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3614.2	3614.2	3614.2	3614.2	3614.2	3614.2	3614.2	3614.2	3614.2	3614.2	3614.2
2.5°	3614.2	3617.7	3612.5	3609.2	3607.4	3607.4	3605.7	3607.4	3617.7	3619.4	3614.2
5°	3604.0	3607.4	3605.7	3602.3	3600.5	3600.5	3598.8	3597.1	3605.7	3609.2	3607.4
7.5°	3590.3	3592.0	3590.3	3588.6	3590.3	3588.6	3583.4	3580.0	3586.8	3586.8	3585.1
10°	3566.3	3569.7	3568.0	3569.7	3573.1	3573.1	3566.3	3559.4	3561.1	3557.6	3557.6
12.5°	3537.0	3542.2	3543.9	3550.8	3559.4	3569.7	3554.3	3538.8	3535.4	3533.7	3532.0
15°	3518.2	3523.3	3530.2	3537.0	3552.5	3574.8	3552.5	3528.5	3521.6	3514.8	3511.4
17.5°	3513.1	3519.9	3530.2	3540.5	3561.1	3583.4	3564.5	3540.5	3523.3	3513.1	3509.6
20°	3526.8	3532.0	3547.4	3566.3	3595.4	3617.7	3598.8	3573.1	3547.4	3532.0	3526.8
22.5°	3554.3	3562.8	3581.7	3616.0	3657.2	3689.7	3664.0	3621.1	3580.0	3559.4	3552.5
25°	3614.2	3621.1	3643.5	3689.7	3737.8	3768.7	3741.2	3691.5	3634.8	3607.4	3598.8
27.5°	3705.2	3715.5	3739.5	3794.4	3833.8	3851.0	3832.2	3797.8	3756.7	3727.5	3720.7
30°	3833.8	3845.9	3881.9	3940.2	3965.9	3976.2	3967.6	3945.3	3916.2	3885.3	3878.4
32.5°	4007.1	4014.0	4055.2	4110.0	4134.0	4137.5	4127.2	4116.9	4068.9	4017.4	4014.0
35°	4201.0	4212.9	4262.7	4327.9	4350.2	4351.9	4331.3	4315.9	4259.3	4218.1	4218.1
37.5°	4458.2	4463.4	4511.4	4585.2	4609.2	4602.3	4592.1	4578.3	4518.3	4465.1	4466.8
40°	4760.2	4770.4	4811.6	4897.4	4897.4	4888.8	4895.6	4885.4	4825.3	4773.9	4775.6
42.5°	5118.6	5123.8	5173.5	5264.4	5257.6	5240.5	5247.3	5233.6	5195.8	5137.5	5116.9
45°	5501.2	5521.8	5607.5	5695.0	5681.3	5626.4	5653.8	5650.4	5616.1	5528.6	5533.8
47.5°	5962.6	5996.9	6079.3	6183.9	6168.5	6082.7	6113.6	6134.2	6086.1	5990.0	5972.9
50°	6482.4	6504.7	6626.5	6724.2	6710.5	6619.6	6690.0	6693.3	6573.3	6437.7	6437.7
52.5°	7036.4	7058.7	7223.4	7376.1	7384.6	7252.5	7309.1	7305.7	7110.2	6931.8	6897.4
55°	7657.4	7667.7	7880.3	8105.1	8153.1	8024.5	8031.3	7962.7	7708.9	7501.3	7482.4
57.5°	8298.9	8336.7	8571.7	8863.3	9005.7	8926.7	8890.7	8707.2	8461.9	8223.5	8211.5
60°	9009.1	9010.8	9316.1	9661.0	9949.1	10002.3	9854.8	9609.4	9292.1	8976.5	8962.8
62.5°	9501.4	9575.2	9961.1	10544.3	11060.7	11359.1	10969.8	10455.2	9830.7	9321.3	9269.9
65°	9602.6	9652.4	10240.7	11228.8	12283.7	12927.0	12026.4	10932.0	9866.7	9187.5	9153.2
67.5°	8784.4	8837.6	9630.0	11146.5	13141.4	14460.5	12712.6	10702.1	9256.1	8415.6	8348.7
70°	6794.6	6854.6	7834.1	9811.9	12951.0	14942.5	12223.7	9335.0	7633.4	6726.0	6604.1
72.5°	3612.5	3833.8	4670.9	6734.5	10511.8	12865.2	10022.9	6811.7	4923.1	4024.2	3863.0
75°	1319.1	1346.5	1813.1	2986.4	6115.3	8822.1	6350.3	3248.9	1868.0	1442.6	1368.8
77.5°	545.5	543.8	597.0	902.3	2221.4	4518.3	2478.7	953.8	595.2	550.6	543.8
80°	322.5	322.5	355.1	375.7	584.9	1363.8	653.6	425.4	356.8	325.9	331.1
82.5°	144.1	152.7	224.7	236.7	283.1	374.0	315.6	271.0	233.3	161.2	145.8
85°	78.9	68.6	118.4	123.5	135.5	139.0	149.2	147.5	135.5	78.9	80.6
87.5°	15.4	18.9	34.3	25.8	29.1	25.8	34.3	48.0	49.7	27.5	22.3
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)