

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: P531991

Luminaire Tested: **GALN-SA7B-750-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-750-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23786 lumens
Efficiency: N/A
Efficacy: 83.2 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

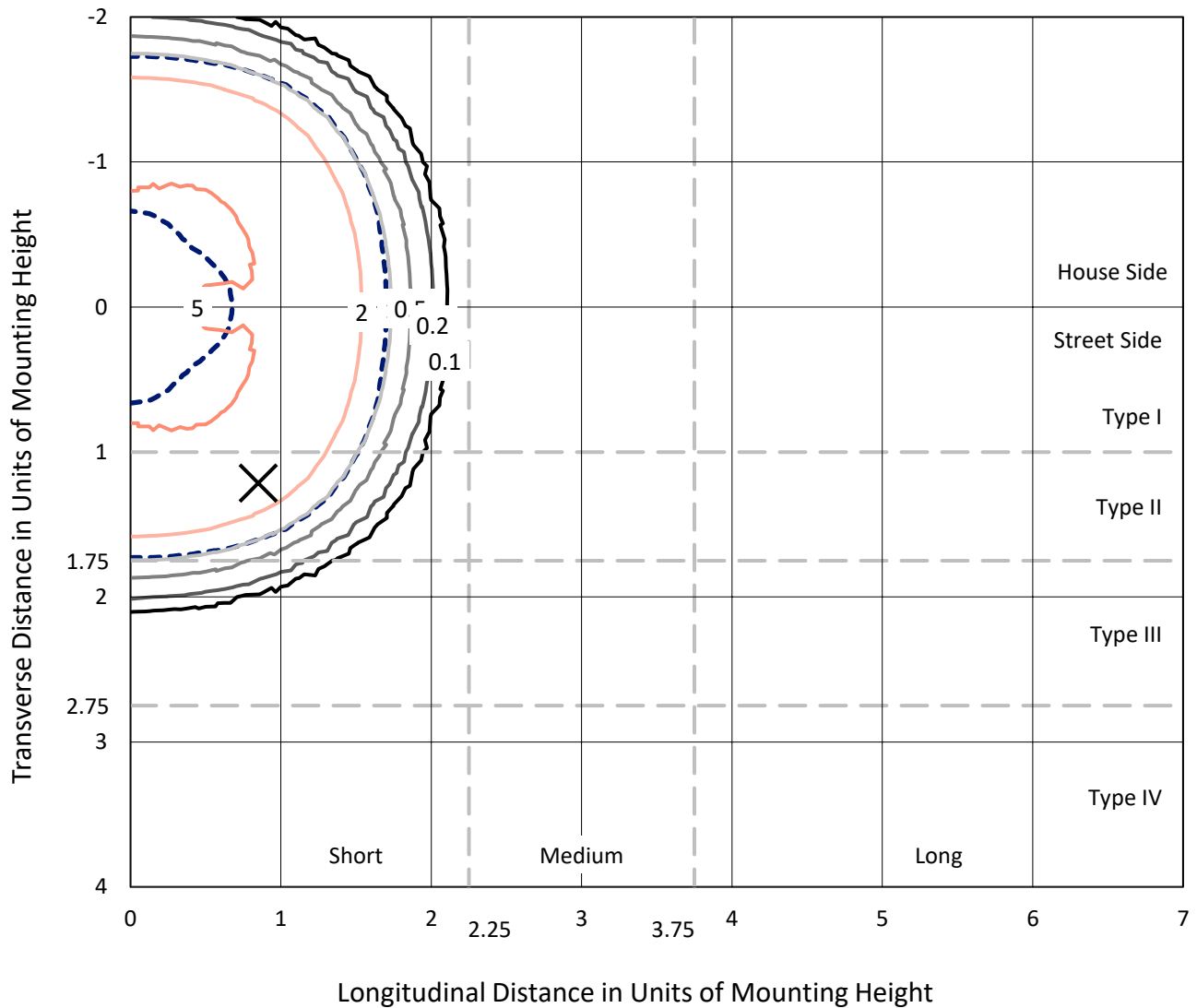
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

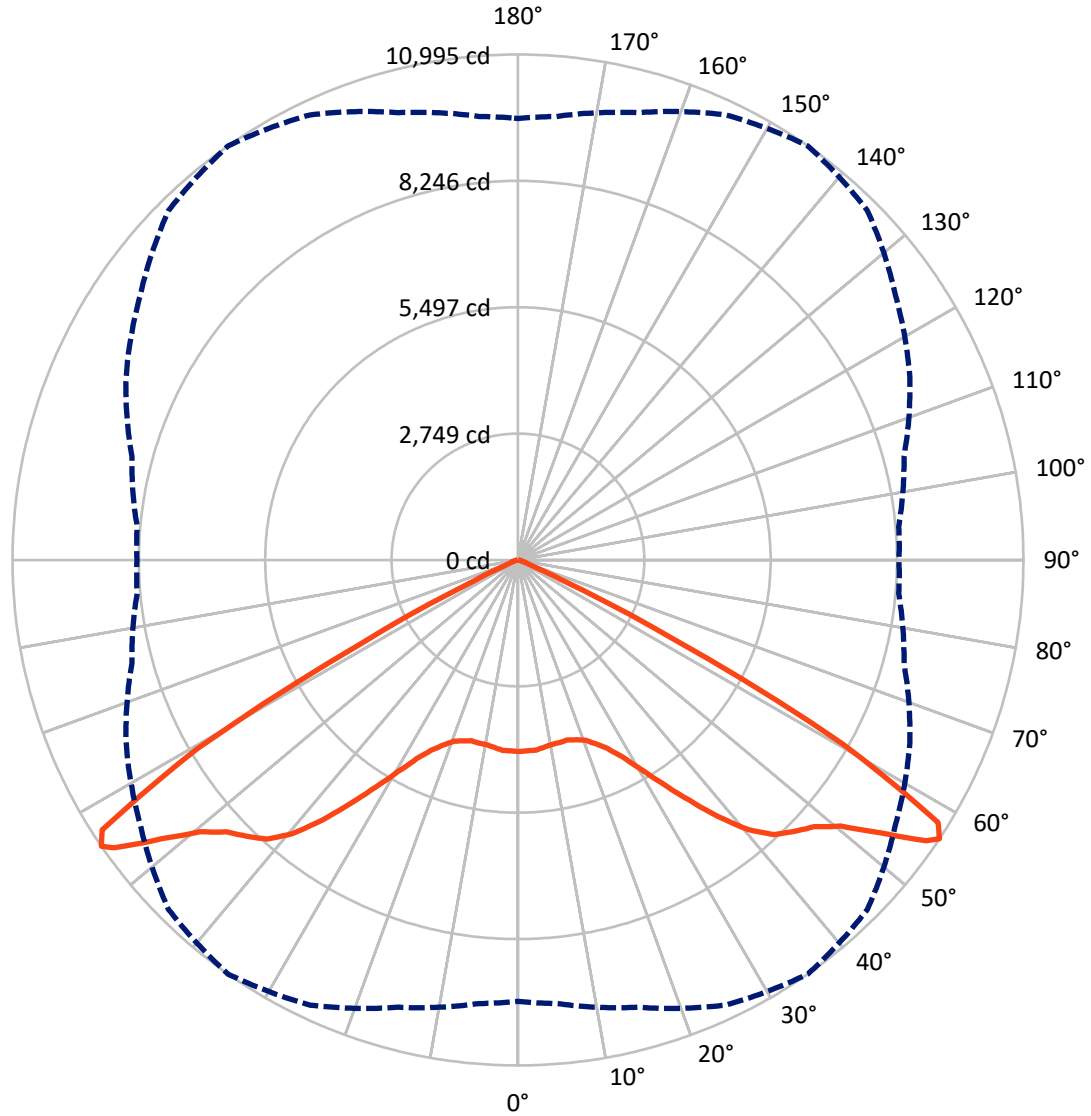
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11893.0	0.0	11893.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11893.0	0.0	11893.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23786.0	0.0	23786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.7	1.6
10°-20°	1143.6	4.8
20°-30°	2070.9	8.7
30°-40°	3840.2	16.1
40°-50°	6303.4	26.5
50°-60°	8120.7	34.1
60°-70°	1789.7	7.5
70°-80°	103.8	0.4
80°-90°	21.9	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°	23786.0	100.0
0°-180°	23786.0	100.0

Coefficient of Utilization



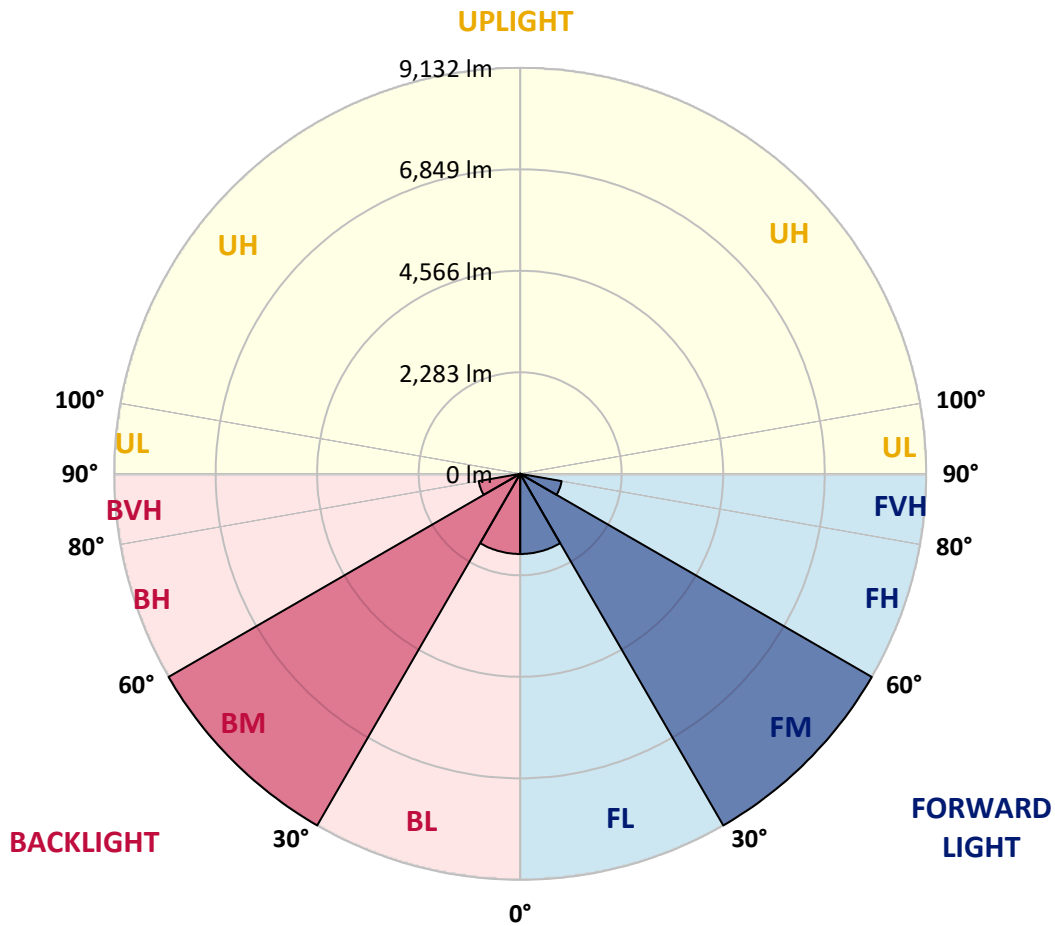
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1803.1	7.6			
FM (30°-60°)	9132.2	38.4			
FH (60°-80°)	946.8	4.0			G1/1800
FVH (80°-90°)	10.9	0.0			G1/100
BL (0°-30°)	1803.1	7.6	B3/2500		
BM (30°-60°)	9132.2	38.4	B5		
BH (60°-80°)	946.8	4.0	B2/1000		G1/1800
BVH (80°-90°)	10.9	0.0			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°	4167.8	4167.8	4167.8	4167.8	4167.8	4167.8	4167.8	4167.8	4167.8	4167.8	4167.8
2.5°	4176.4	4176.4	4180.7	4185.1	4154.9	4142.0	4146.3	4137.6	4133.3	4146.3	4146.3
5°	4163.5	4163.5	4150.6	4154.9	4154.9	4116.1	4116.1	4124.7	4124.7	4098.9	4090.2
7.5°	4129.0	4120.4	4103.2	4124.7	4111.8	4111.8	4081.6	4060.1	4051.4	4068.7	4051.4
10°	4055.8	4060.1	4077.3	4085.9	4077.3	4103.2	4051.4	4021.3	3991.1	3978.2	3978.2
12.5°	4021.3	4047.1	4021.3	4042.8	4073.0	4051.4	4021.3	3999.7	3956.6	3939.4	3939.4
15°	4017.0	4034.2	4042.8	4073.0	4060.1	4068.7	4008.3	3982.5	3917.8	3887.7	3874.7
17.5°	4012.7	4034.2	4047.1	4103.2	4111.8	4116.1	4068.7	3991.1	3935.1	3904.9	3874.7
20°	4060.1	4068.7	4094.5	4150.6	4185.1	4245.4	4159.2	4077.3	3956.6	3922.1	3909.2
22.5°	4120.4	4163.5	4189.4	4249.7	4340.2	4391.9	4279.9	4176.4	4051.4	4008.3	3956.6
25°	4314.4	4305.7	4348.8	4473.8	4547.1	4585.9	4495.4	4344.5	4180.7	4129.0	4137.6
27.5°	4555.7	4564.3	4603.1	4741.1	4848.8	4909.1	4801.4	4603.1	4443.7	4357.5	4348.8
30°	4870.4	4861.7	4904.8	5090.2	5284.1	5374.6	5185.0	4952.2	4797.1	4685.0	4710.9
32.5°	5202.2	5206.5	5327.2	5495.3	5809.9	5986.7	5680.6	5396.2	5163.4	5085.9	5047.1
35°	5693.6	5715.1	5809.9	6068.6	6417.7	6646.1	6309.9	5969.4	5702.2	5560.0	5577.2
37.5°	6301.3	6279.7	6439.2	6719.4	7085.7	7253.8	6969.4	6581.4	6309.9	6215.1	6275.4
40°	6947.8	6969.4	7051.2	7305.5	7715.0	7827.1	7404.7	7193.5	6956.4	6909.0	6982.3
42.5°	7594.3	7581.4	7641.7	7870.2	8167.5	8090.0	7840.0	7715.0	7546.9	7452.1	7551.2
45°	8068.4	8046.9	8158.9	8314.1	8421.8	8275.3	8163.2	8120.1	8033.9	7930.5	8021.0
47.5°	8529.6	8512.3	8620.1	8663.2	8671.8	8477.9	8499.4	8577.0	8361.5	8146.0	8249.4
50°	8921.8	8891.6	9025.2	9120.1	9098.5	8788.2	8865.8	8788.2	8452.0	8197.7	8158.9
52.5°	9576.9	9589.9	9732.1	9904.5	9852.8	9594.2	9482.1	9128.7	8697.7	8469.2	8335.6
55°	9990.7	9926.0	10171.7	10719.1	10779.4	10512.2	10016.6	9495.0	8848.5	8568.4	8533.9
56°	9602.8	9684.7	10072.6	10684.6	10994.9	10749.3	10029.5	9404.5	8693.4	8314.1	8288.2
57.5°	8615.8	8572.7	9098.5	9934.7	10779.4	10676.0	9676.1	8758.0	7930.5	7503.8	7452.1
60°	5361.7	5486.7	5947.9	6982.3	8111.5	8163.2	7171.9	6383.2	5417.7	5038.4	5129.0
62.5°	2099.0	1991.2	2280.0	3051.5	3827.3	3999.7	3624.8	3012.7	2474.0	2099.0	2073.1
65°	487.0	474.1	534.4	737.0	1030.1	1193.9	1133.5	814.6	599.1	568.9	525.8
67.5°	275.8	275.8	262.9	262.9	288.8	306.0	293.1	288.8	301.7	314.6	310.3
70°	194.0	189.6	181.0	185.3	176.7	176.7	189.6	211.2	228.4	228.4	232.7
72.5°	116.4	116.4	116.4	129.3	129.3	129.3	142.2	159.5	163.8	159.5	155.2
75°	51.7	51.7	60.3	73.3	81.9	86.2	99.1	107.8	116.4	107.8	99.1
77.5°	12.9	12.9	21.6	30.2	38.8	47.4	64.7	77.6	81.9	77.6	64.7
80°	4.3	4.3	8.6	21.6	38.8	47.4	64.7	69.0	73.3	64.7	51.7
82.5°	4.3	4.3	8.6	21.6	30.2	38.8	51.7	60.3	64.7	56.0	51.7
85°	0.0	4.3	8.6	17.2	25.9	34.5	34.5	25.9	21.6	12.9	17.2
87.5°	0.0	0.0	4.3	4.3	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)