

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: P531943

Luminaire Tested: **GALN-SA7B-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531943
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19258 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

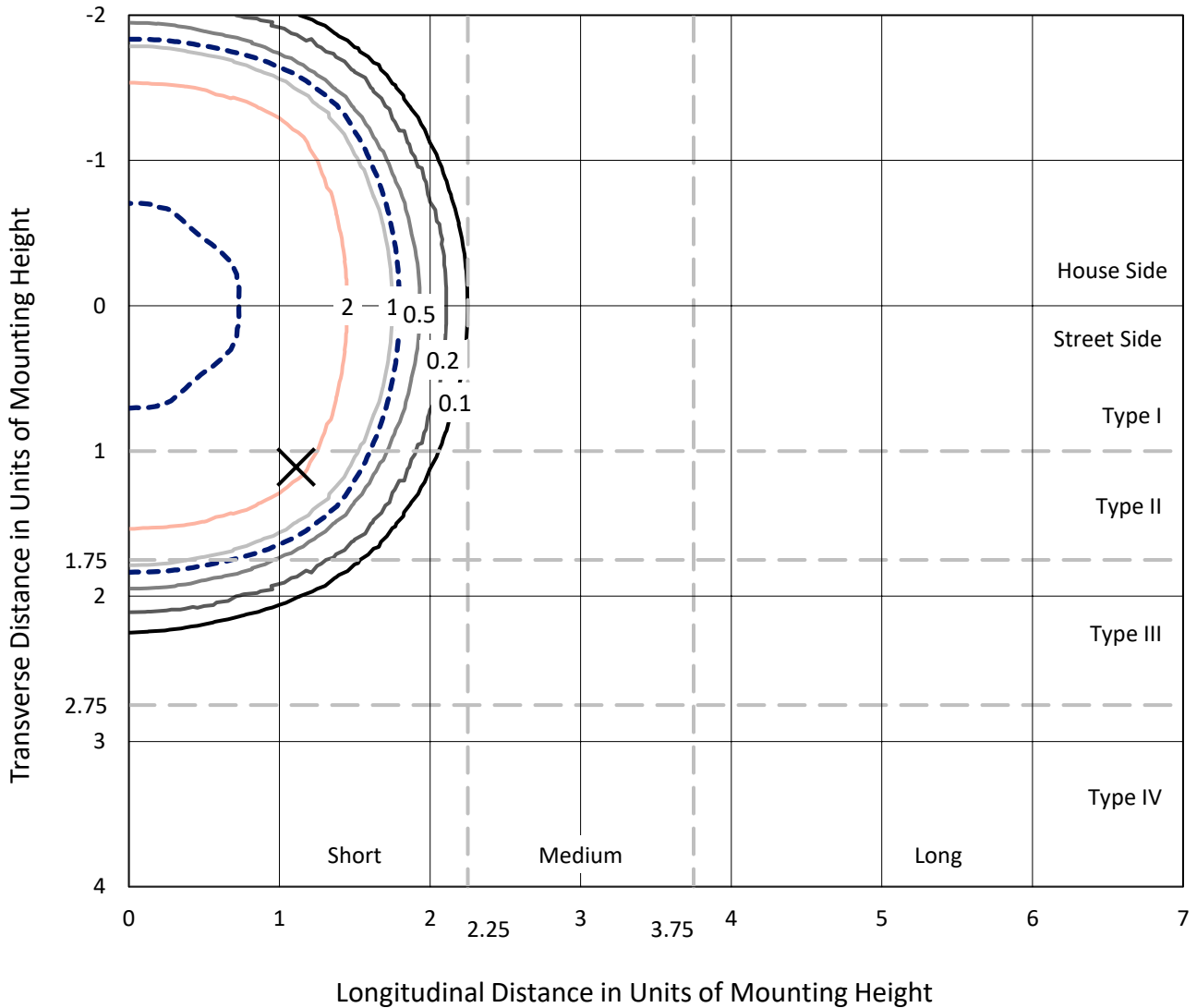
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

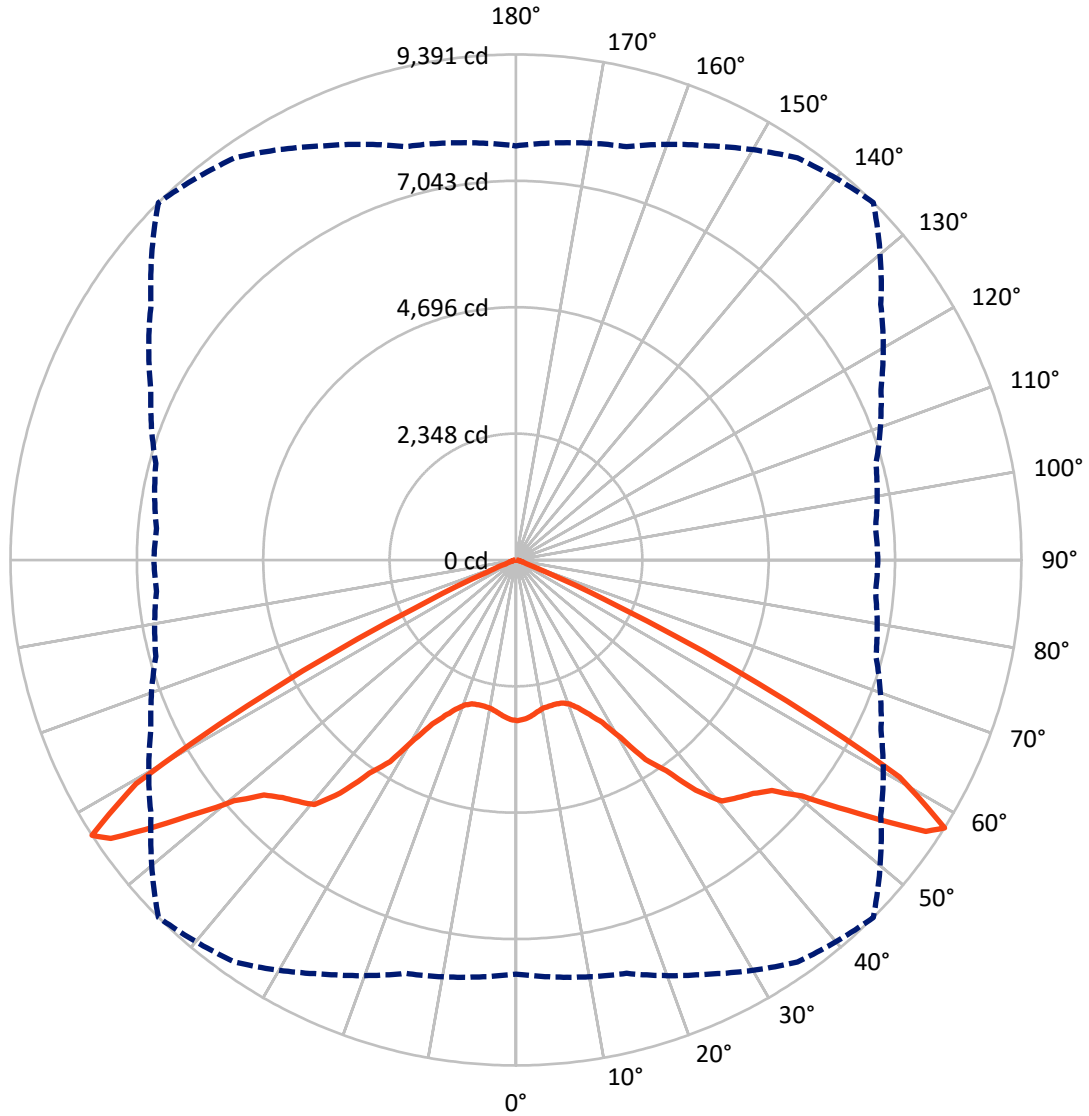
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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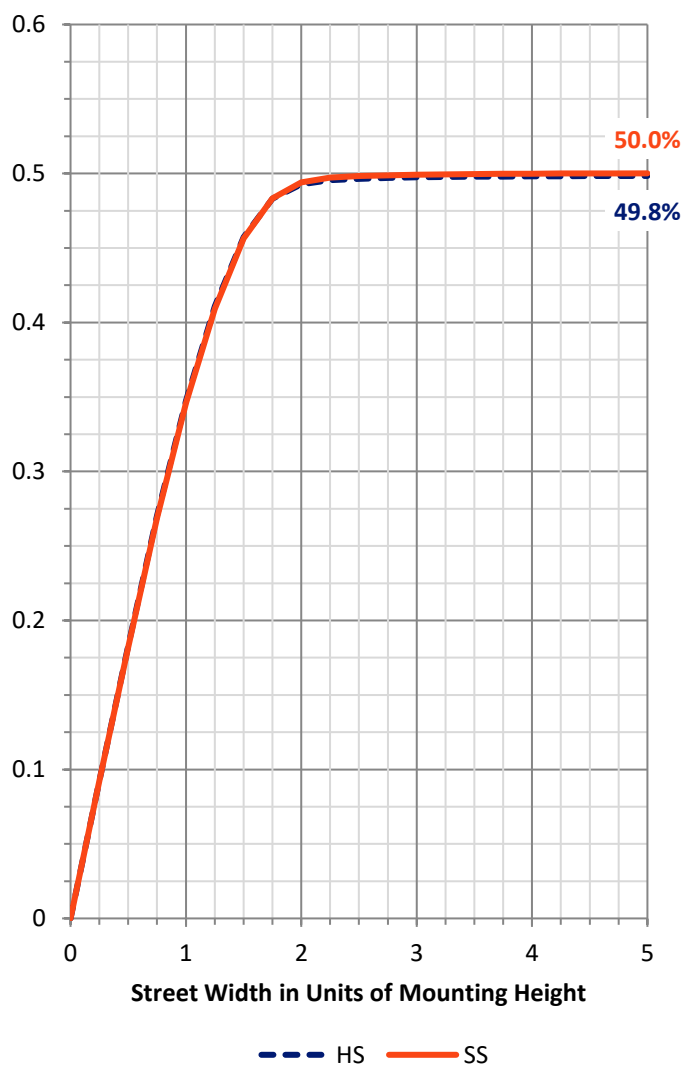
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9629.0	0.0	9629.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9629.0	0.0	9629.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19258.0	0.0	19258.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.5	1.4
10°-20°	793.4	4.1
20°-30°	1464.6	7.6
30°-40°	2880.3	15.0
40°-50°	4691.2	24.4
50°-60°	6690.2	34.7
60°-70°	2316.3	12.0
70°-80°	124.3	0.6
80°-90°	23.3	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°	19258.0	100.0
0°-180°	19258.0	100.0

Coefficient of Utilization

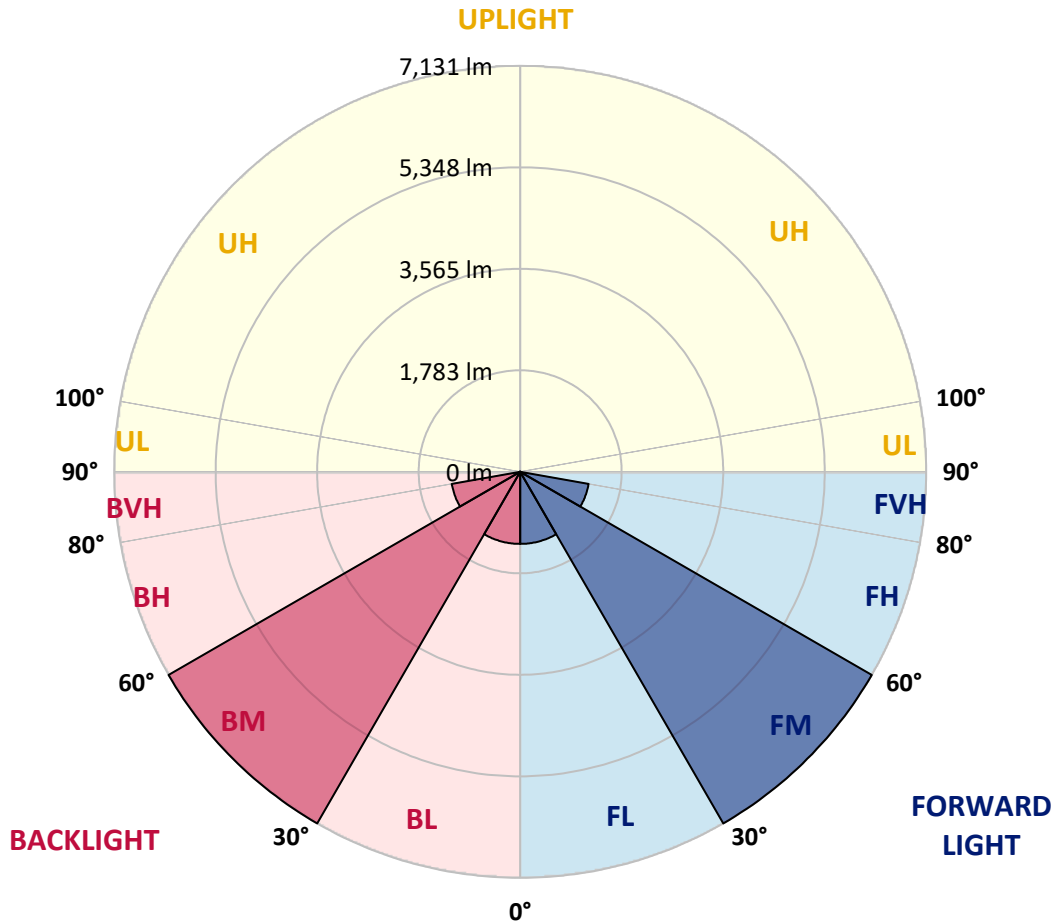


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1266.3	6.6			
FM (30°-60°)	7130.8	37.0			
FH (60°-80°)	1220.3	6.3			G1/1800
FVH (80°-90°)	11.7	0.1			G1/100
BL (0°-30°)	1266.3	6.6	B3/2500		
BM (30°-60°)	7130.8	37.0	B4/8500		
BH (60°-80°)	1220.3	6.3	B3/2500		G1/1800
BVH (80°-90°)	11.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1
2.5°	2979.1	2995.1	2975.1	2967.0	2963.0	2963.0	2951.0	2951.0	2947.0	2951.0	2934.9
5°	2930.9	2947.0	2947.0	2943.0	2918.9	2914.8	2902.8	2894.8	2898.8	2882.7	2894.8
7.5°	2882.7	2894.8	2878.7	2874.7	2866.7	2850.6	2846.6	2810.5	2814.5	2814.5	2822.5
10°	2874.7	2870.7	2846.6	2826.5	2802.4	2798.4	2786.4	2778.3	2778.3	2774.3	2786.4
12.5°	2874.7	2854.6	2850.6	2806.4	2766.3	2782.4	2750.2	2730.2	2758.3	2766.3	2782.4
15°	2870.7	2890.8	2822.5	2802.4	2774.3	2778.3	2750.2	2730.2	2746.2	2754.3	2766.3
17.5°	2894.8	2882.7	2862.7	2822.5	2810.5	2794.4	2758.3	2742.2	2742.2	2762.3	2766.3
20°	2959.0	2926.9	2886.7	2866.7	2878.7	2858.6	2814.5	2754.3	2770.3	2786.4	2798.4
22.5°	3019.2	2995.1	2967.0	2955.0	3023.3	2991.1	2914.8	2846.6	2822.5	2850.6	2870.7
25°	3135.7	3135.7	3083.5	3099.5	3175.8	3179.8	3091.5	2971.1	2955.0	2967.0	2975.1
27.5°	3372.6	3384.6	3340.4	3356.5	3388.6	3416.7	3340.4	3240.1	3203.9	3199.9	3212.0
30°	3629.5	3653.6	3649.6	3717.8	3810.2	3826.2	3713.8	3549.2	3440.8	3420.7	3436.8
32.5°	3966.8	3978.8	3970.8	4051.1	4300.0	4416.4	4123.3	3890.5	3745.9	3782.1	3745.9
35°	4601.1	4589.1	4500.8	4516.8	4721.6	4805.9	4524.8	4376.3	4308.0	4380.3	4364.2
37.5°	5147.2	5103.0	5030.7	5135.1	5347.9	5424.2	5131.1	4870.1	4745.7	4866.1	4918.3
40°	5608.9	5496.5	5396.1	5500.5	5785.5	5889.9	5460.3	5247.5	5199.4	5287.7	5400.1
42.5°	5998.3	5926.1	5793.6	5801.6	5990.3	6038.5	5693.2	5568.7	5520.5	5661.1	5717.3
45°	6275.4	6207.1	6082.6	6074.6	6219.1	6187.0	5877.9	5793.6	5821.7	5914.0	5942.1
47.5°	6415.9	6452.0	6379.7	6399.8	6476.1	6399.8	6154.9	6154.9	6090.7	6146.9	6118.8
50°	6821.4	6709.0	6801.3	6801.3	6881.6	6889.6	6644.7	6556.4	6383.8	6287.4	6287.4
52.5°	7295.2	7303.2	7339.3	7471.8	7608.3	7724.8	7375.5	6998.0	6709.0	6584.5	6568.4
55°	7684.6	7764.9	7909.4	8158.4	8551.8	8712.4	8110.2	7435.7	7082.4	6889.6	6849.5
56°	7897.4	7821.1	8070.0	8411.3	8925.2	9134.0	8230.6	7524.0	7134.6	6917.7	6913.7
57.5°	7692.6	7776.9	7949.6	8487.6	9117.9	9391.0	8274.8	7483.9	6925.8	6705.0	6725.0
60°	6074.6	6154.9	6387.8	6990.0	7977.7	8190.5	7002.1	6171.0	5673.1	5355.9	5359.9
62.5°	3436.8	3497.0	3677.7	4235.8	4850.1	5054.8	4364.2	3810.2	3464.9	3288.2	3232.0
65°	1264.7	1240.6	1268.7	1553.8	1931.2	2103.8	1814.8	1533.7	1353.0	1288.8	1264.7
67.5°	473.8	437.6	409.5	437.6	550.0	582.2	534.0	445.7	417.6	429.6	437.6
70°	293.1	277.0	220.8	208.8	204.8	200.7	212.8	224.8	257.0	301.1	309.2
72.5°	204.8	192.7	156.6	148.6	140.5	136.5	156.6	172.6	200.7	232.9	236.9
75°	80.3	84.3	80.3	88.3	92.3	96.4	112.4	124.5	136.5	136.5	132.5
77.5°	16.1	16.1	24.1	32.1	40.1	52.2	76.3	88.3	92.3	88.3	76.3
80°	0.0	0.0	8.0	16.1	32.1	44.2	68.3	76.3	84.3	76.3	60.2
82.5°	0.0	0.0	8.0	20.1	32.1	40.1	64.2	80.3	92.3	84.3	64.2
85°	0.0	0.0	8.0	16.1	24.1	28.1	28.1	20.1	20.1	12.0	8.0
87.5°	0.0	0.0	0.0	0.0	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)