

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: P455992

Luminaire Tested: **GALN-SA7B-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

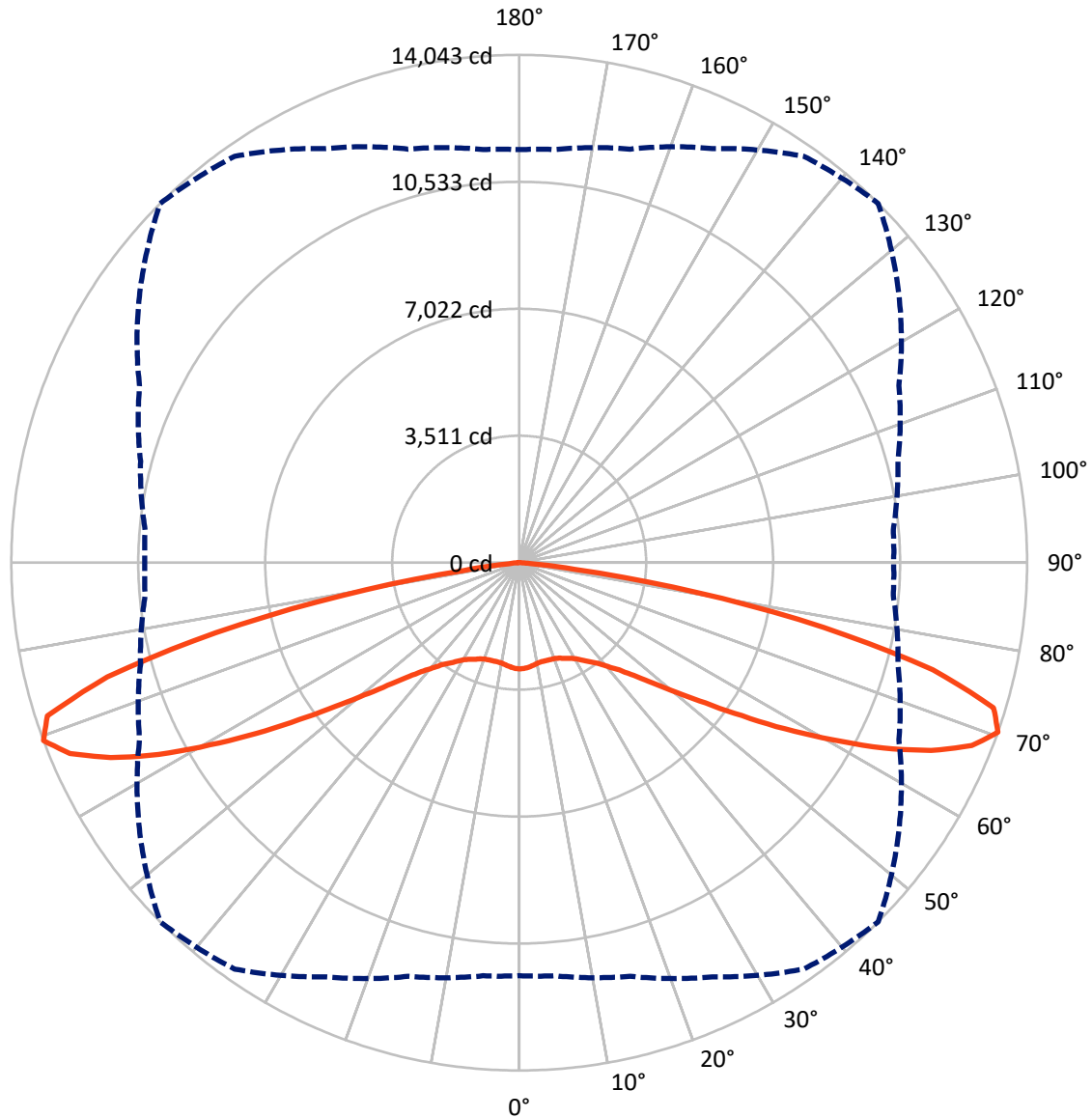
Lumens per Lamp: N/A
Luminaire Lumens: 34690 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 286
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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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	17345.0	0.0	17345.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17345.0	0.0	17345.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	34690.0	0.0	34690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	0.8
10°-20°	804.1	2.3
20°-30°	1370.0	3.9
30°-40°	2123.4	6.1
40°-50°	3574.0	10.3
50°-60°	6502.8	18.7
60°-70°	11009.0	31.7
70°-80°	8521.4	24.6
80°-90°	510.6	1.5
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°	34690.0	100.0
0°-180°	34690.0	100.0

Coefficient of Utilization



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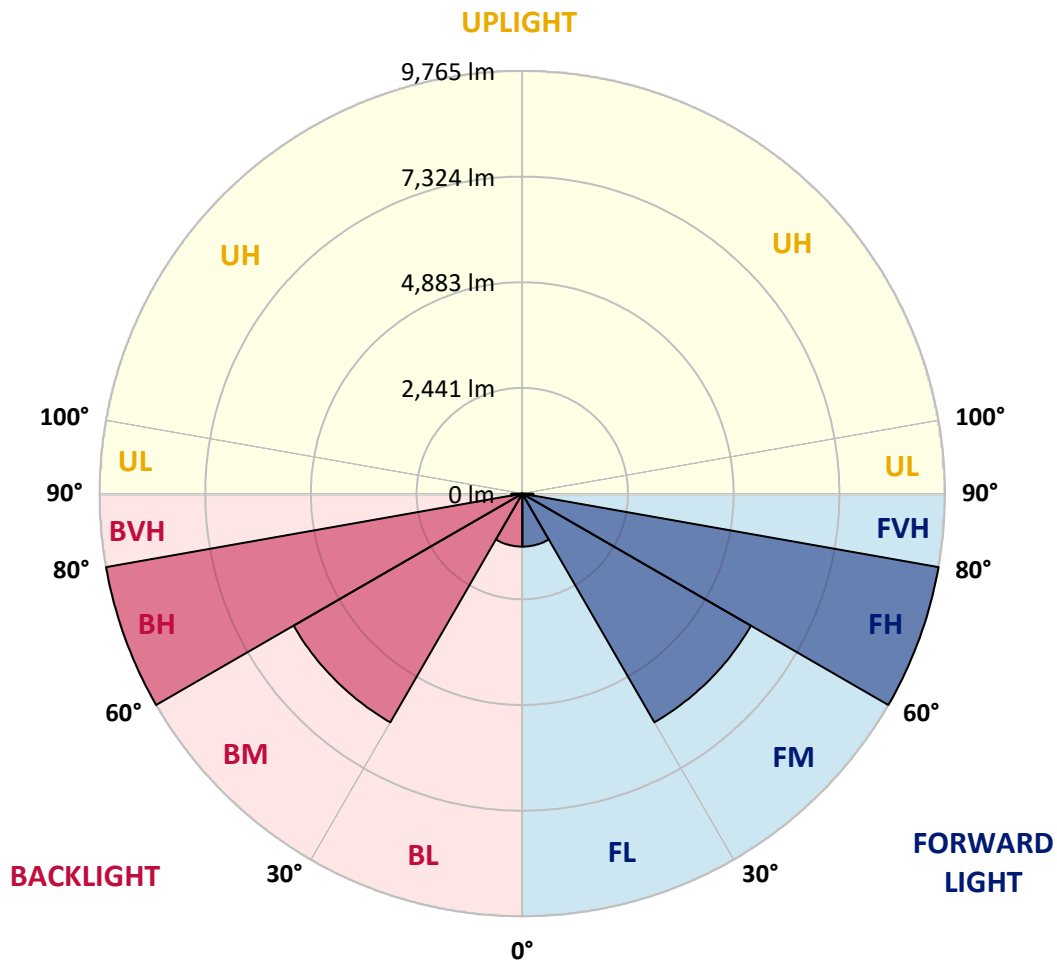
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1224.3	3.5			
FM	(30°-60°)	6100.1	17.6			
FH	(60°-80°)	9765.2	28.1			G4/12000
FVH	(80°-90°)	255.3	0.7			G3/500
BL	(0°-30°)	1224.3	3.5	B3/2500		
BM	(30°-60°)	6100.1	17.6	B4/8500		
BH	(60°-80°)	9765.2	28.1	B5		G4/12000
BVH	(80°-90°)	255.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2936.9	2936.9	2936.9	2936.9	2936.9	2936.9	2936.9	2936.9	2936.9	2936.9	2936.9
2.5°	2929.6	2931.4	2931.4	2927.8	2925.9	2925.9	2924.1	2924.1	2929.6	2931.4	2933.3
5°	2904.0	2904.0	2904.0	2902.1	2898.5	2898.5	2894.8	2894.8	2896.6	2902.1	2898.5
7.5°	2869.1	2872.8	2872.8	2865.5	2860.0	2860.0	2858.2	2860.0	2861.8	2867.3	2865.5
10°	2858.2	2860.0	2850.8	2838.0	2828.8	2823.3	2825.2	2828.8	2838.0	2841.7	2843.5
12.5°	2865.5	2865.5	2849.0	2830.7	2814.2	2806.9	2805.0	2817.8	2834.3	2845.3	2849.0
15°	2874.6	2871.0	2850.8	2827.0	2810.5	2808.7	2806.9	2816.0	2839.8	2861.8	2863.6
17.5°	2880.1	2878.3	2852.7	2823.3	2814.2	2814.2	2812.3	2819.7	2845.3	2872.8	2874.6
20°	2898.5	2893.0	2863.6	2832.5	2825.2	2828.8	2823.3	2832.5	2860.0	2893.0	2900.3
22.5°	2935.1	2929.6	2900.3	2869.1	2865.5	2865.5	2863.6	2872.8	2902.1	2936.9	2942.4
25°	2979.1	2973.6	2946.1	2924.1	2927.8	2935.1	2931.4	2933.3	2957.1	2986.4	2995.6
27.5°	3037.7	3028.5	3004.7	2986.4	2997.4	2997.4	2997.4	2995.6	3010.2	3037.7	3046.9
30°	3109.2	3105.5	3079.8	3078.0	3087.2	3078.0	3078.0	3079.8	3081.7	3107.3	3116.5
32.5°	3202.6	3195.3	3182.4	3178.8	3204.4	3211.8	3186.1	3162.3	3175.1	3200.8	3206.3
35°	3356.5	3345.5	3327.2	3307.0	3327.2	3362.0	3307.0	3288.7	3321.7	3356.5	3360.2
37.5°	3565.4	3559.9	3530.5	3493.9	3492.1	3528.7	3471.9	3470.1	3532.4	3574.5	3580.0
40°	3827.4	3832.9	3796.2	3761.4	3743.1	3772.4	3728.4	3744.9	3805.4	3853.0	3849.3
42.5°	4195.6	4175.5	4118.7	4085.7	4065.5	4054.5	4043.6	4069.2	4137.0	4188.3	4228.6
45°	4626.2	4618.8	4547.4	4507.1	4463.1	4446.6	4443.0	4488.8	4571.2	4633.5	4639.0
47.5°	5113.5	5097.0	5051.2	5009.1	4992.6	4972.4	4954.1	4988.9	5071.4	5115.4	5128.2
50°	5615.5	5619.2	5619.2	5611.9	5628.4	5632.0	5582.6	5595.4	5641.2	5637.5	5633.9
52.5°	6189.0	6209.1	6304.4	6313.6	6392.4	6445.5	6355.7	6302.6	6286.1	6187.2	6194.5
55°	6863.2	6881.5	7024.5	7167.4	7379.9	7469.7	7281.0	7116.1	6998.8	6848.6	6855.9
57.5°	7704.2	7713.3	7848.9	8123.7	8460.9	8671.6	8339.9	8013.8	7775.6	7632.7	7575.9
60°	8609.3	8618.4	8816.3	9151.6	9675.6	9932.1	9521.7	8988.5	8688.0	8470.0	8484.7
62.5°	9695.7	9732.4	9910.1	10371.8	11007.5	11295.2	10751.0	10038.3	9631.6	9360.4	9371.4
65°	10859.1	10921.4	11115.6	11623.1	12209.4	12519.1	11852.2	11029.5	10523.9	10192.2	10227.1
67.5°	11614.0	11669.0	11949.3	12509.9	13240.9	13497.4	12636.3	11678.1	11046.0	10650.3	10577.0
70°	11421.6	11467.4	11841.2	12636.3	13719.1	14043.4	12823.2	11582.8	10839.0	10382.8	10353.5
72.5°	10082.3	9987.0	10533.0	11674.4	13173.1	13717.3	12235.1	10578.8	9642.6	9173.6	9118.6
75°	6681.8	6888.9	7695.0	9039.8	11145.0	11819.2	10443.2	8493.8	7315.8	6925.5	6865.1
77.5°	2233.4	2392.8	3109.2	5124.5	7597.9	8611.1	7608.9	5555.1	3930.0	3166.0	3180.6
80°	591.8	584.5	756.7	1408.9	3283.2	4987.1	3821.9	1881.6	1029.7	745.7	707.2
82.5°	212.5	238.2	306.0	390.2	870.3	1550.0	1093.8	527.7	386.6	285.8	276.7
85°	93.4	91.6	131.9	155.7	218.0	289.5	256.5	223.5	196.0	130.1	120.9
87.5°	20.2	20.2	31.1	23.8	38.5	38.5	47.6	56.8	58.6	38.5	31.1
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)