

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: P454197

Luminaire Tested: **GALN-SA5B-740-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-740-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29400 lumens  
Efficiency: N/A  
Efficacy: 144.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

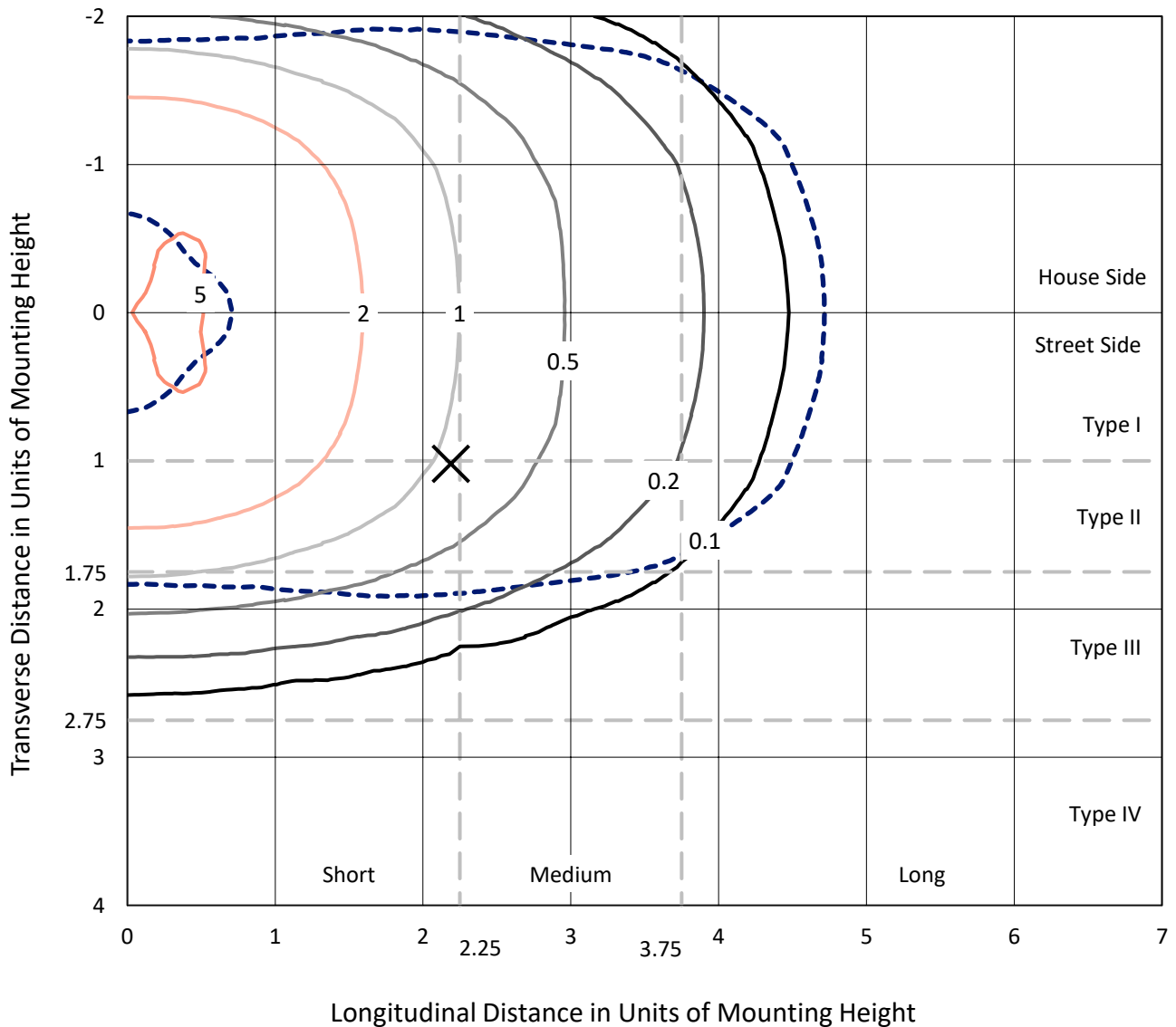
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

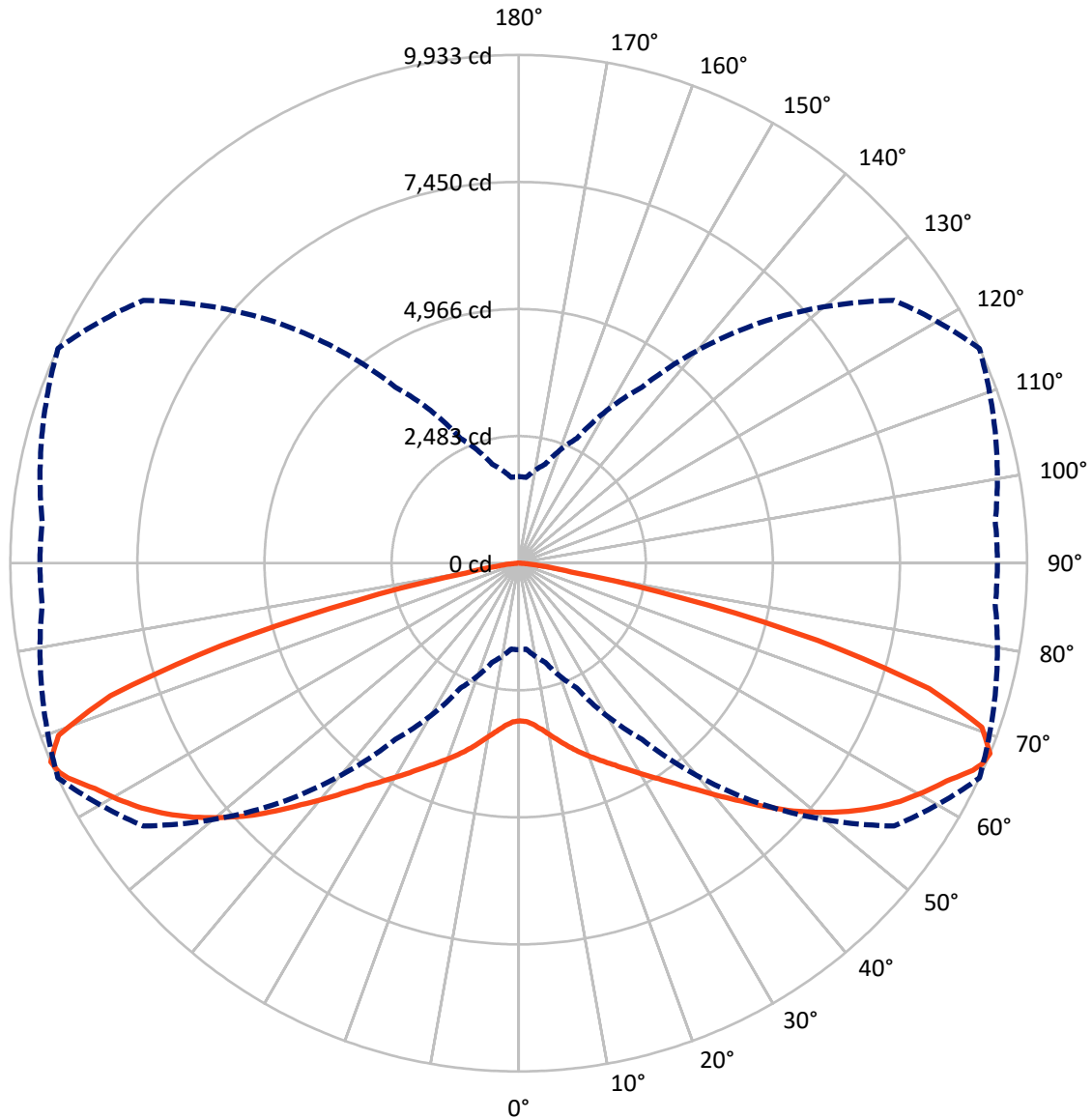
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14700.0	0.0	14700.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14700.0	0.0	14700.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29400.0	0.0	29400.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.7	1.0
10°-20°	1016.5	3.5
20°-30°	1988.3	6.8
30°-40°	3381.9	11.5
40°-50°	5352.5	18.2
50°-60°	7097.3	24.1
60°-70°	6695.0	22.8
70°-80°	3309.7	11.3
80°-90°	255.1	0.9
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°	29400.0	100.0
0°-180°	29400.0	100.0

**Coefficient of Utilization**



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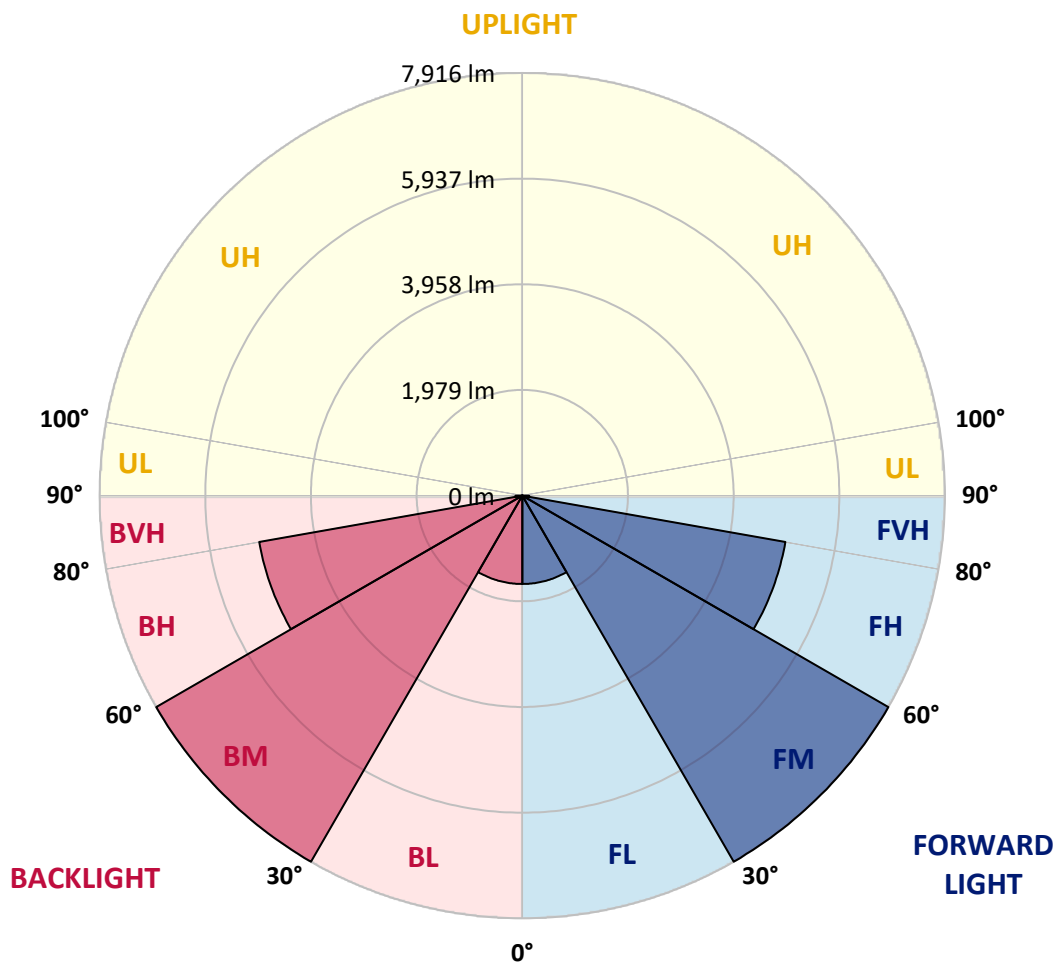
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1654.3	5.6			
FM	(30°-60°)	7915.9	26.9			
FH	(60°-80°)	5002.3	17.0			G3/7500
FVH	(80°-90°)	127.5	0.4			G2/225
BL	(0°-30°)	1654.3	5.6	B3/2500		
BM	(30°-60°)	7915.9	26.9	B4/8500		
BH	(60°-80°)	5002.3	17.0	B5		G5
BVH	(80°-90°)	127.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4	3079.4
2.5°	3063.6	3066.8	3069.9	3074.7	3081.0	3090.4	3096.7	3101.4	3114.0	3115.6	3114.0
5°	3052.6	3055.8	3063.6	3077.8	3098.3	3126.6	3148.7	3175.5	3196.0	3210.1	3207.0
7.5°	3051.0	3057.3	3069.9	3099.9	3139.2	3188.1	3238.5	3284.2	3323.5	3355.0	3350.3
10°	3076.2	3084.1	3104.6	3148.7	3210.1	3281.0	3351.9	3419.6	3476.3	3517.3	3531.5
12.5°	3118.8	3125.1	3162.9	3229.0	3317.2	3405.4	3485.8	3569.3	3648.0	3717.3	3717.3
15°	3192.8	3203.8	3251.1	3347.2	3455.8	3558.2	3640.1	3728.3	3813.4	3892.2	3915.8
17.5°	3295.2	3310.9	3381.8	3504.7	3643.3	3737.8	3815.0	3887.4	3961.5	4037.1	4048.1
20°	3435.4	3451.1	3545.6	3693.7	3857.5	3970.9	4022.9	4040.2	4076.5	4148.9	4158.4
22.5°	3626.0	3641.7	3747.2	3914.2	4096.9	4219.8	4241.8	4200.9	4191.4	4248.1	4254.4
25°	3841.8	3855.9	3977.2	4156.8	4345.8	4479.7	4473.4	4372.6	4315.9	4350.5	4360.0
27.5°	4084.3	4104.8	4227.7	4413.5	4618.3	4736.4	4717.5	4571.0	4449.8	4443.5	4446.6
30°	4394.6	4416.7	4533.2	4711.2	4912.8	5021.5	4982.2	4785.3	4597.8	4534.8	4534.8
32.5°	4722.3	4777.4	4895.5	5081.4	5238.9	5317.7	5257.8	5021.5	4772.7	4684.5	4679.7
35°	5149.1	5179.0	5295.6	5476.7	5594.9	5656.3	5541.3	5287.7	5001.1	4897.1	4882.9
37.5°	5566.5	5591.7	5727.2	5900.5	6043.8	6040.6	5884.7	5604.3	5284.6	5168.0	5158.6
40°	5993.4	6020.2	6174.5	6333.6	6477.0	6464.4	6275.3	5961.9	5621.7	5490.9	5516.1
42.5°	6363.5	6393.5	6568.3	6795.1	6924.3	6921.1	6702.2	6349.4	5995.0	5878.4	5900.5
45°	6700.6	6727.4	6930.6	7190.5	7379.5	7403.1	7163.7	6790.4	6426.6	6276.9	6283.2
47.5°	6938.5	6988.9	7201.5	7499.2	7756.0	7839.5	7604.8	7239.3	6820.3	6664.4	6673.9
50°	7119.6	7151.1	7382.7	7721.3	8045.8	8219.1	8030.0	7655.2	7214.1	7048.7	7070.8
52.5°	7141.7	7179.5	7431.5	7822.1	8238.0	8501.0	8408.1	8061.5	7615.8	7445.7	7492.9
55°	6962.1	6984.2	7285.0	7759.1	8313.6	8710.5	8734.1	8439.6	7998.5	7869.4	7900.9
57.5°	6450.2	6506.9	6888.1	7464.6	8209.6	8822.3	8978.3	8783.0	8386.0	8258.4	8308.8
60°	5610.6	5667.3	6050.1	6781.0	7817.4	8770.4	9179.9	9087.0	8737.3	8634.9	8661.7
62.5°	4396.2	4391.5	4865.6	5761.8	7037.7	8515.2	9329.5	9379.9	9083.8	8954.6	8995.6
65°	2849.4	2863.6	3322.0	4287.5	5861.1	7866.2	9362.6	9753.2	9424.0	9228.7	9258.6
66°	2291.8	2334.4	2723.4	3613.4	5261.0	7440.9	9263.4	9863.5	9528.0	9291.7	9305.9
67.5°	1691.7	1683.8	2003.6	2690.3	4200.9	6632.9	8953.1	9932.8	9646.1	9348.4	9354.7
70°	965.6	964.0	1077.4	1477.5	2469.8	4670.3	7546.5	9600.5	9885.6	9553.2	9535.9
72.5°	705.7	700.9	716.7	815.9	1205.0	2358.0	5205.8	8390.7	9762.7	9520.1	9471.3
75°	592.3	589.1	586.0	598.6	675.7	1067.9	2762.8	6035.9	8471.1	8935.7	8885.3
77.5°	483.6	483.6	485.1	482.0	485.1	562.3	1145.1	3235.3	5158.6	5758.7	5898.9
80°	378.0	376.5	403.2	392.2	367.0	360.7	507.2	1041.2	1712.2	1702.7	1405.0
82.5°	278.8	259.9	307.2	299.3	270.9	230.0	296.1	444.2	571.8	371.7	275.6
85°	176.4	174.8	217.4	198.5	165.4	108.7	141.8	190.6	236.3	143.3	116.6
87.5°	31.5	29.9	69.3	50.4	50.4	31.5	39.4	52.0	77.2	53.6	39.4
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)