

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: P456024

Luminaire Tested: **GALN-SA7B-730-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456024  
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-SA7B-730-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37240 lumens  
Efficiency: N/A  
Efficacy: 130.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

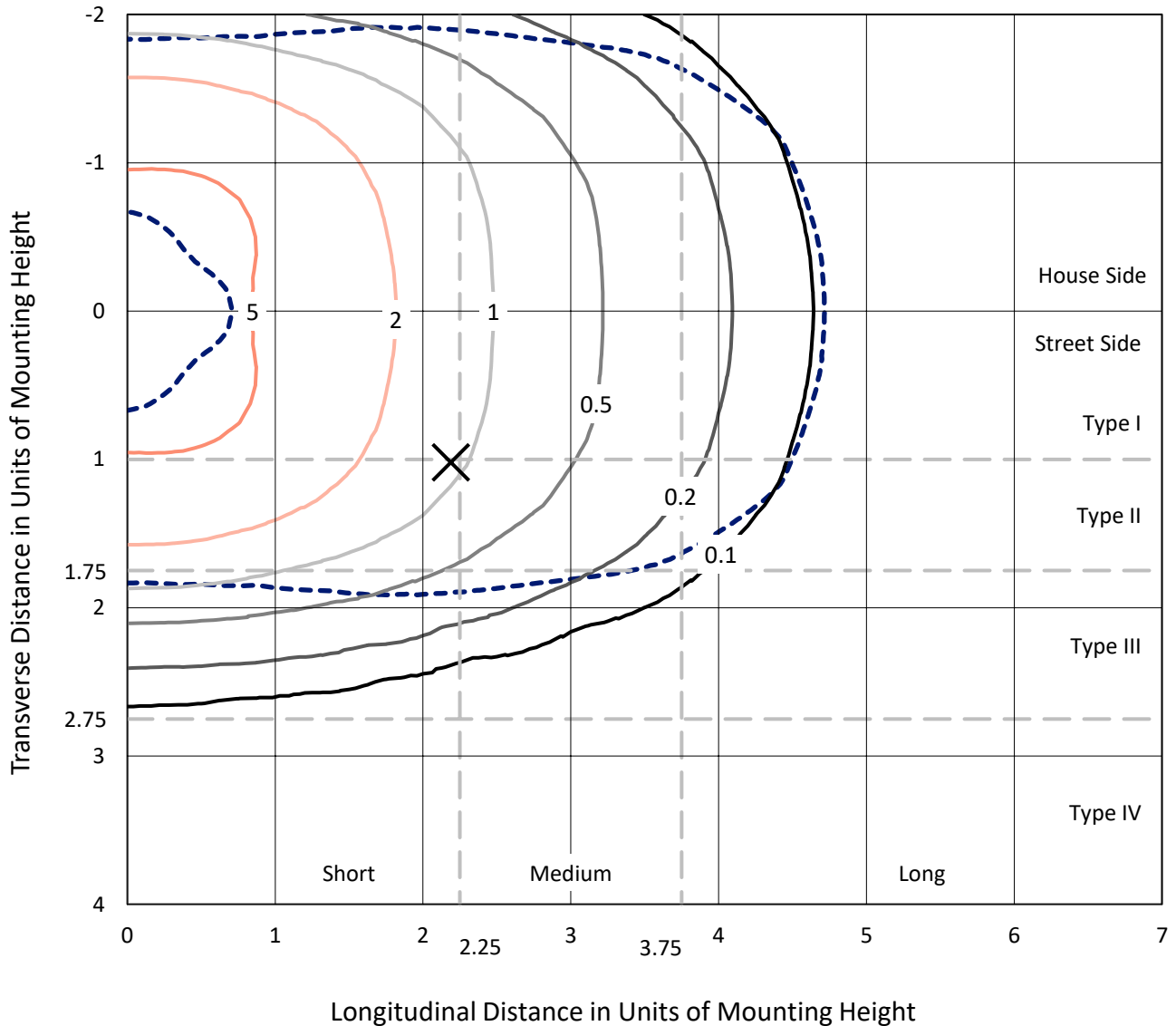
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

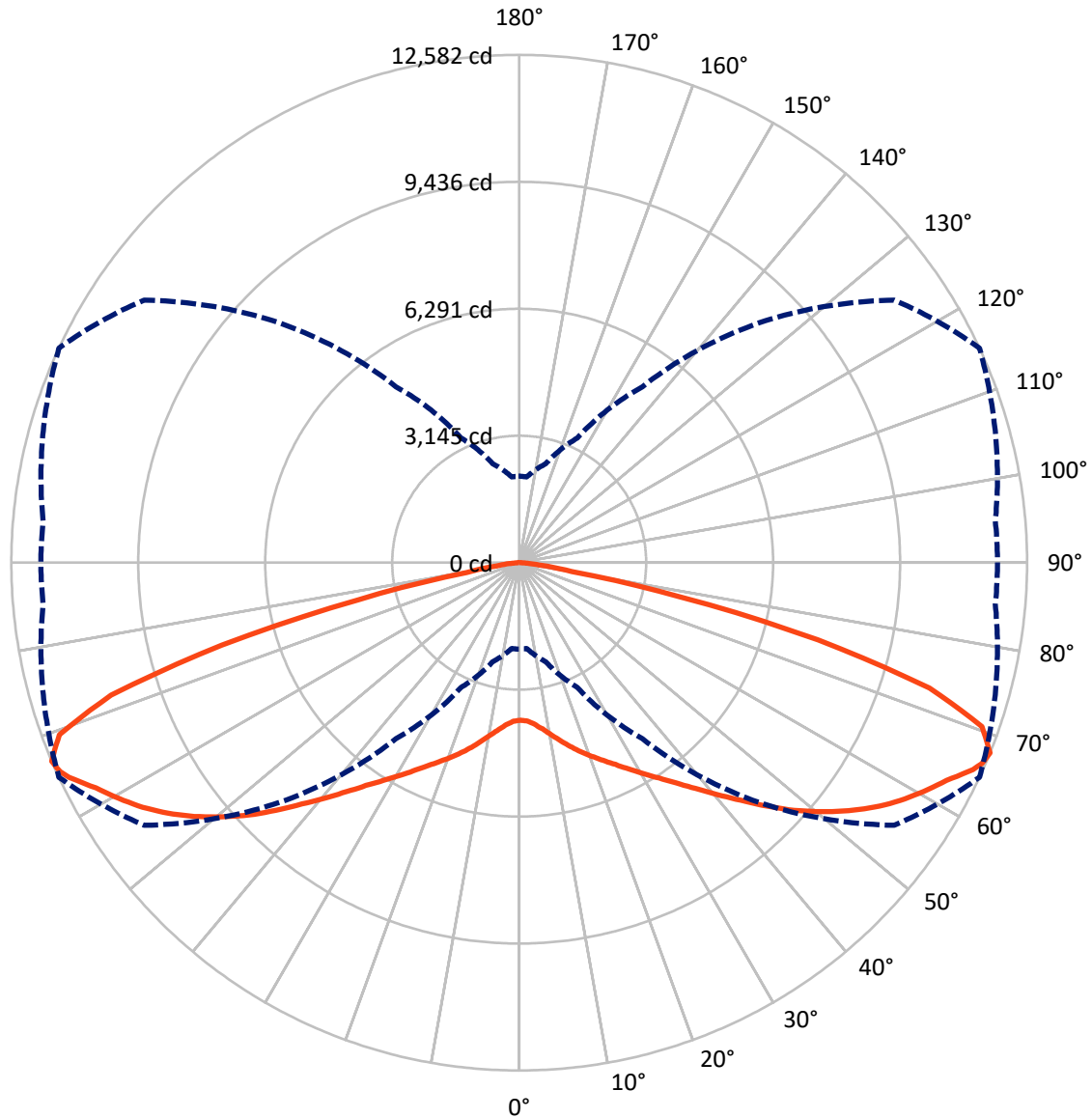
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	18620.0	0.0	18620.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18620.0	0.0	18620.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37240.0	0.0	37240.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.7	1.0
10°-20°	1287.6	3.5
20°-30°	2518.6	6.8
30°-40°	4283.7	11.5
40°-50°	6779.9	18.2
50°-60°	8990.0	24.1
60°-70°	8480.3	22.8
70°-80°	4192.2	11.3
80°-90°	323.1	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°	37240.0	100.0
0°-180°	37240.0	100.0



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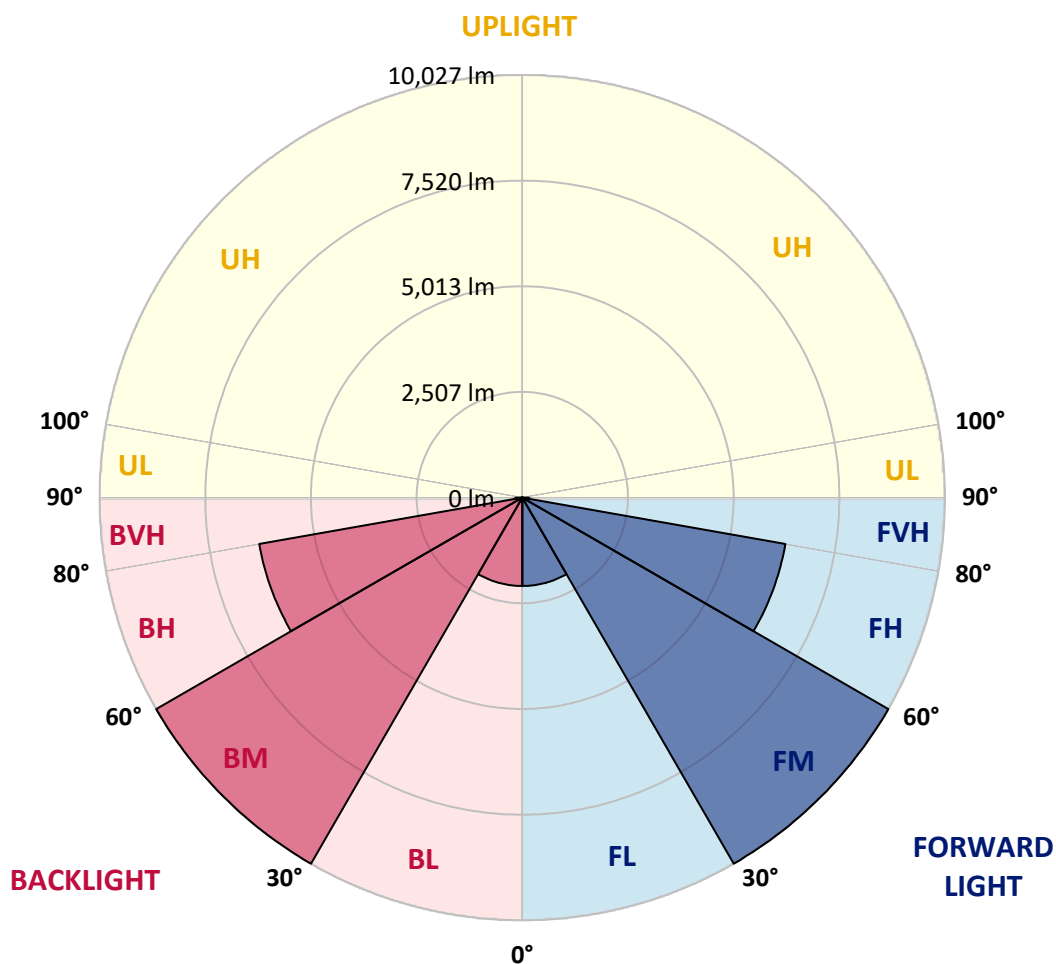
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2095.4	5.6			
FM	(30°-60°)	10026.8	26.9			
FH	(60°-80°)	6336.3	17.0			G3/7500
FVH	(80°-90°)	161.5	0.4			G2/225
BL	(0°-30°)	2095.4	5.6	B3/2500		
BM	(30°-60°)	10026.8	26.9	B5		
BH	(60°-80°)	6336.3	17.0	B5		G5
BVH	(80°-90°)	161.5	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°	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6	3900.6
2.5°	3880.6	3884.6	3888.6	3894.6	3902.6	3914.5	3922.5	3928.5	3944.5	3946.5	3944.5
5°	3866.6	3870.6	3880.6	3898.6	3924.5	3960.4	3988.3	4022.3	4048.2	4066.2	4062.2
7.5°	3864.6	3872.6	3888.6	3926.5	3976.4	4038.2	4102.1	4159.9	4209.8	4249.7	4243.7
10°	3896.6	3906.5	3932.5	3988.3	4066.2	4155.9	4245.7	4331.5	4403.3	4455.2	4473.2
12.5°	3950.4	3958.4	4006.3	4090.1	4201.8	4313.6	4415.3	4521.1	4620.8	4708.6	4708.6
15°	4044.2	4058.2	4118.0	4239.7	4377.4	4507.1	4610.8	4722.6	4830.3	4930.1	4960.0
17.5°	4173.9	4193.9	4283.6	4439.3	4614.8	4734.5	4832.3	4924.1	5017.9	5113.6	5127.6
20°	4351.5	4371.4	4491.1	4678.7	4886.2	5029.8	5095.7	5117.6	5163.5	5255.3	5267.3
22.5°	4592.9	4612.8	4746.5	4958.0	5189.4	5345.1	5373.0	5321.1	5309.2	5381.0	5389.0
25°	4866.2	4884.2	5037.8	5265.3	5504.7	5674.3	5666.3	5538.6	5466.8	5510.7	5522.6
27.5°	5173.5	5199.4	5355.0	5590.5	5849.8	5999.5	5975.5	5790.0	5636.4	5628.4	5632.4
30°	5566.5	5594.5	5742.1	5967.6	6222.9	6360.6	6310.7	6061.3	5823.9	5744.1	5744.1
32.5°	5981.5	6051.4	6201.0	6436.4	6635.9	6735.7	6659.9	6360.6	6045.4	5933.6	5927.7
35°	6522.2	6560.1	6707.8	6937.2	7086.9	7164.7	7019.0	6697.8	6334.7	6203.0	6185.0
37.5°	7050.9	7082.9	7254.4	7473.9	7655.5	7651.5	7454.0	7098.8	6693.8	6546.2	6534.2
40°	7591.6	7625.5	7821.1	8022.6	8204.1	8188.2	7948.8	7551.7	7120.8	6955.2	6987.1
42.5°	8060.5	8098.4	8319.9	8607.2	8770.8	8766.8	8489.5	8042.5	7593.6	7446.0	7473.9
45°	8487.5	8521.4	8778.8	9108.0	9347.4	9377.3	9074.0	8601.2	8140.3	7950.8	7958.7
47.5°	8788.7	8852.6	9121.9	9499.0	9824.2	9930.0	9632.7	9169.8	8639.1	8441.6	8453.5
50°	9018.2	9058.1	9351.4	9780.3	10191.3	10410.8	10171.4	9696.5	9137.9	8928.4	8956.3
52.5°	9046.1	9094.0	9413.2	9908.0	10434.8	10767.9	10650.2	10211.3	9646.7	9431.2	9491.0
55°	8818.7	8846.6	9227.7	9828.2	10530.5	11033.3	11063.2	10690.1	10131.5	9967.9	10007.8
57.5°	8170.2	8242.1	8724.9	9455.1	10398.8	11175.0	11372.5	11125.1	10622.3	10460.7	10524.5
60°	7106.8	7178.6	7663.5	8589.2	9902.0	11109.1	11627.9	11510.1	11067.2	10937.5	10971.5
62.5°	5568.5	5562.5	6163.1	7298.3	8914.4	10785.9	11817.4	11881.2	11506.2	11342.6	11394.4
65°	3609.3	3627.2	4207.8	5430.9	7424.0	9963.9	11859.3	12354.1	11937.1	11689.7	11727.6
66°	2903.0	2956.8	3449.7	4576.9	6663.9	9425.2	11733.6	12493.8	12068.8	11769.5	11787.5
67.5°	2142.8	2132.8	2537.9	3407.8	5321.1	8401.7	11340.6	12581.6	12218.4	11841.3	11849.3
70°	1223.0	1221.0	1364.7	1871.5	3128.4	5915.7	9558.9	12160.6	12521.7	12100.7	12078.8
72.5°	893.8	887.9	907.8	1033.5	1526.3	2986.8	6594.0	10628.3	12366.1	12058.8	11997.0
75°	750.2	746.2	742.2	758.2	855.9	1352.7	3499.5	7645.5	10730.0	11318.6	11254.8
77.5°	612.5	612.5	614.5	610.5	614.5	712.3	1450.5	4098.1	6534.2	7294.3	7471.9
80°	478.8	476.8	510.8	496.8	464.9	456.9	642.4	1318.8	2168.8	2156.8	1779.7
82.5°	353.1	329.2	389.1	379.1	343.2	291.3	375.1	562.6	724.2	470.9	349.2
85°	223.5	221.5	275.3	251.4	209.5	137.7	179.6	241.4	299.3	181.6	147.6
87.5°	39.9	37.9	87.8	63.8	63.8	39.9	49.9	65.8	97.8	67.8	49.9
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)