

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: P652493

Luminaire Tested: **GALN-SA7B-840-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652493  
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-840-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 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: 34389.3 lumens  
Efficiency: N/A  
Efficacy: 120.2 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

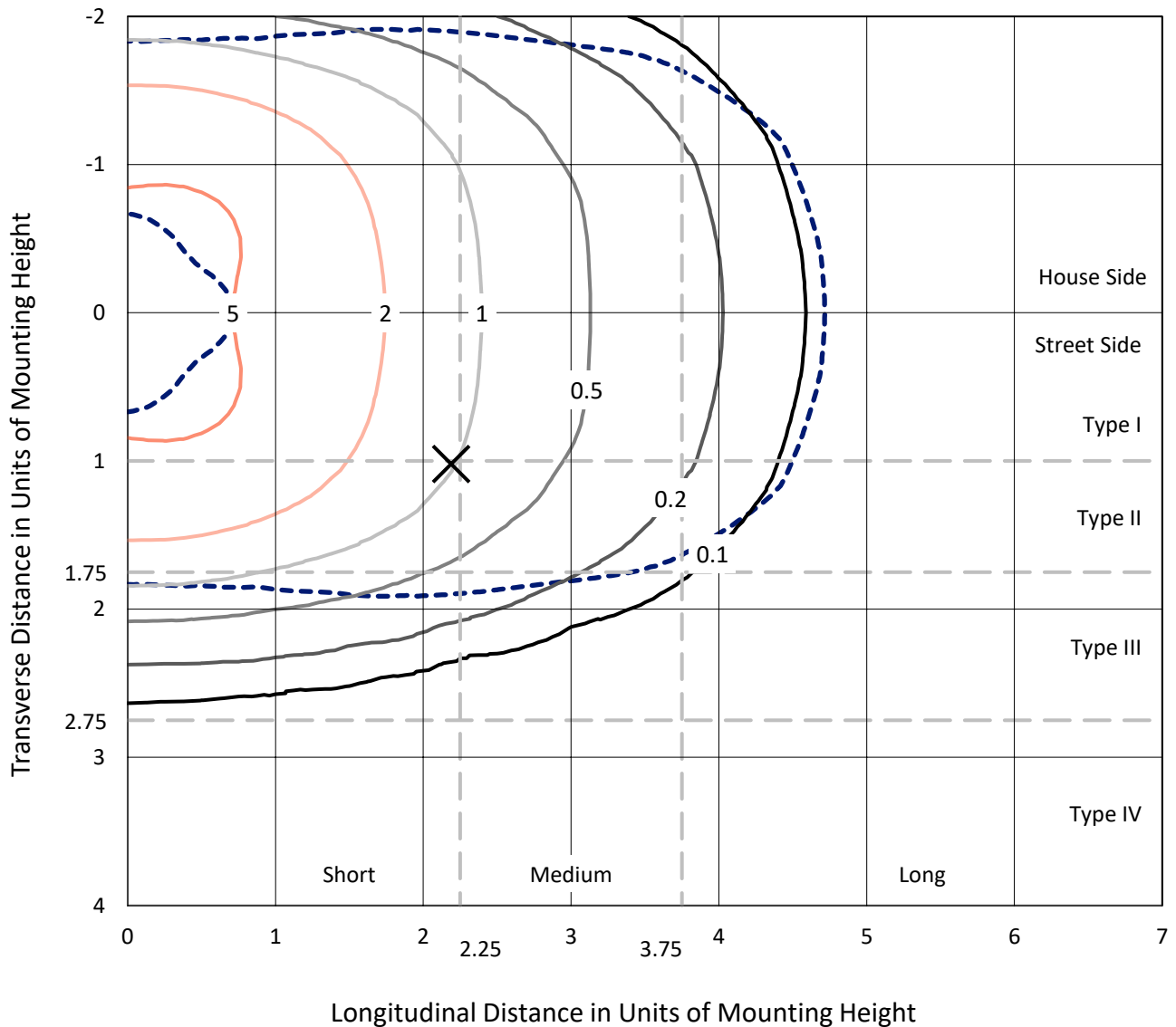
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

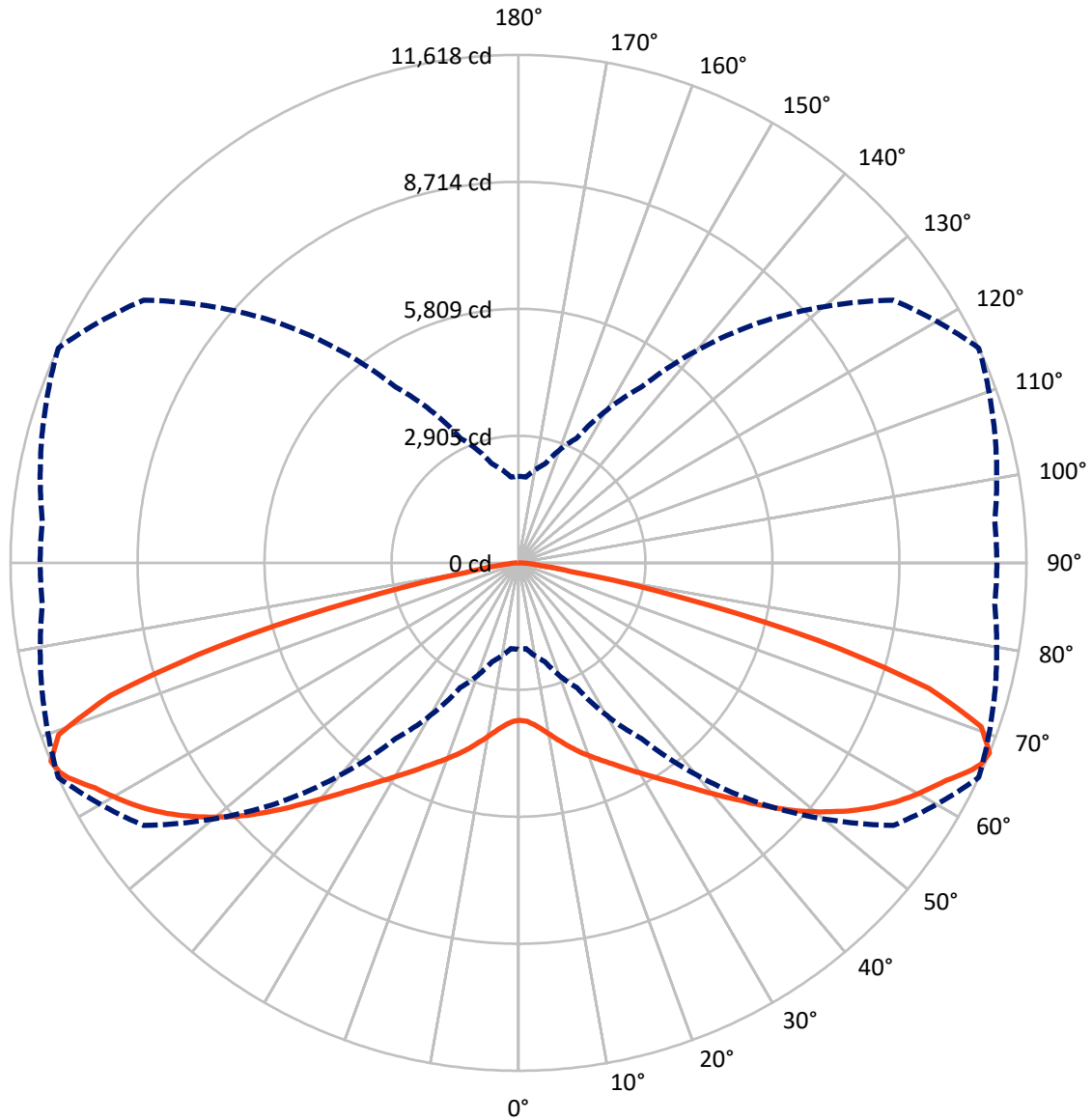
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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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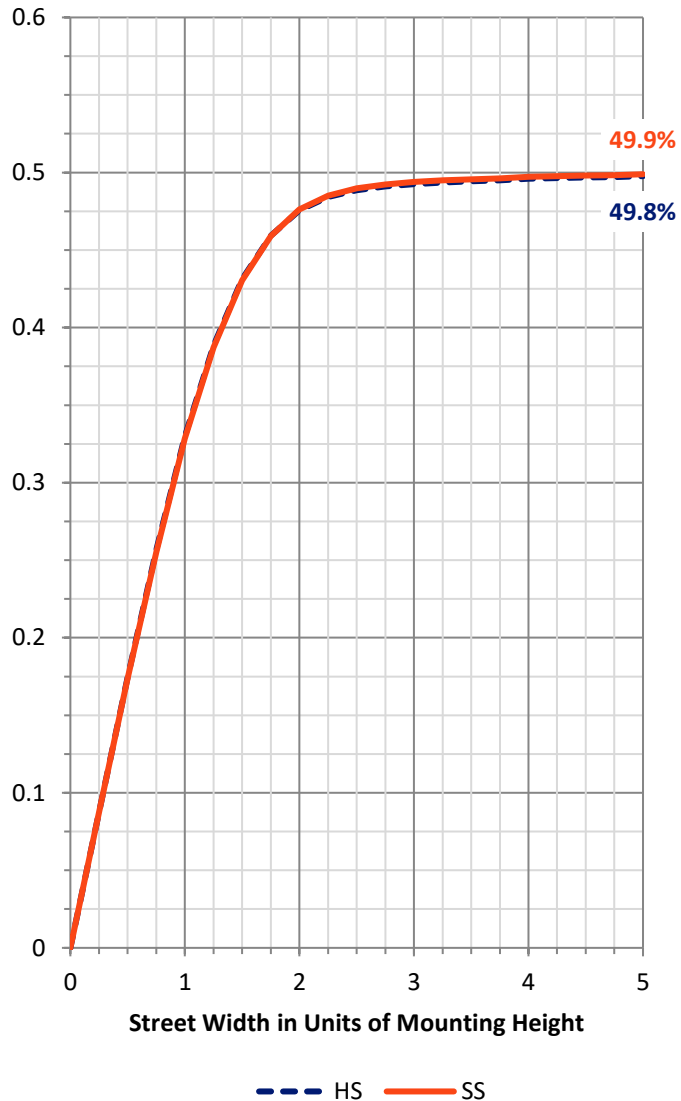
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17194.7	0.0	17194.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17194.7	0.0	17194.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34389.3	0.0	34389.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.3	1.0
10°-20°	1189.0	3.5
20°-30°	2325.8	6.8
30°-40°	3955.8	11.5
40°-50°	6260.9	18.2
50°-60°	8301.8	24.1
60°-70°	7831.1	22.8
70°-80°	3871.3	11.3
80°-90°	298.4	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°	34389.3	100.0
0°-180°	34389.3	100.0

**Coefficient of Utilization**

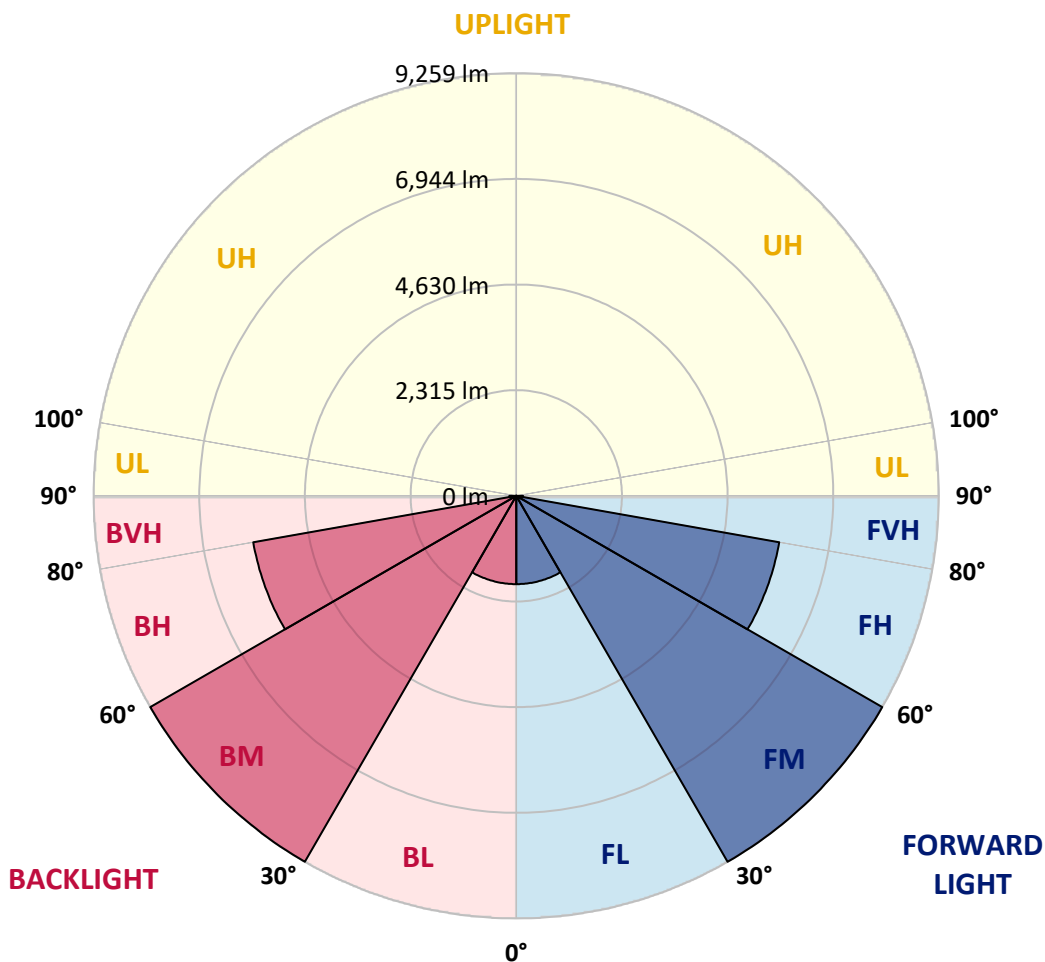


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1935.0	5.6			
FM (30°-60°)	9259.2	26.9			
FH (60°-80°)	5851.2	17.0			G3/7500
FVH (80°-90°)	149.2	0.4			G2/225
BL (0°-30°)	1935.0	5.6	B3/2500		
BM (30°-60°)	9259.2	26.9	B5		
BH (60°-80°)	5851.2	17.0	B5		G5
BVH (80°-90°)	149.2	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°	3602.0	3602.0	3602.0	3602.0	3602.0	3602.0	3602.0	3602.0	3602.0	3602.0	3602.0
2.5°	3583.6	3587.2	3590.9	3596.5	3603.9	3614.9	3622.3	3627.7	3642.5	3644.4	3642.5
5°	3570.6	3574.3	3583.6	3600.2	3624.1	3657.3	3683.1	3714.4	3738.3	3754.9	3751.2
7.5°	3568.8	3576.2	3590.9	3626.0	3672.0	3729.1	3788.0	3841.5	3887.5	3924.4	3918.9
10°	3598.3	3607.5	3631.4	3683.1	3754.9	3837.8	3920.7	4000.0	4066.2	4114.2	4130.7
12.5°	3648.0	3655.4	3699.6	3777.0	3880.2	3983.4	4077.3	4175.0	4267.1	4348.1	4348.1
15°	3734.6	3747.5	3802.8	3915.2	4042.4	4162.1	4257.9	4361.1	4460.6	4552.7	4580.3
17.5°	3854.4	3872.8	3955.7	4099.5	4261.6	4372.1	4462.4	4547.1	4633.7	4722.2	4735.1
20°	4018.4	4036.8	4147.3	4320.6	4512.1	4644.8	4705.6	4725.8	4768.2	4853.0	4864.1
22.5°	4241.3	4259.7	4383.2	4578.5	4792.2	4935.9	4961.7	4913.8	4902.8	4969.0	4976.4
25°	4493.7	4510.3	4652.2	4862.2	5083.3	5239.9	5232.5	5114.6	5048.3	5088.8	5099.9
27.5°	4777.5	4801.4	4945.1	5162.6	5402.1	5540.3	5518.1	5346.7	5204.9	5197.5	5201.2
30°	5140.4	5166.2	5302.6	5510.7	5746.6	5873.7	5827.6	5597.4	5378.1	5304.4	5304.4
32.5°	5523.7	5588.1	5726.3	5943.8	6127.9	6220.1	6150.1	5873.7	5582.6	5479.5	5473.9
35°	6023.0	6058.0	6194.3	6406.1	6544.3	6616.2	6481.8	6185.1	5849.7	5728.1	5711.6
37.5°	6511.2	6540.7	6699.2	6901.8	7069.4	7065.7	6883.3	6555.4	6181.4	6045.0	6034.0
40°	7010.5	7041.9	7222.4	7408.5	7576.1	7561.4	7340.3	6973.7	6575.7	6422.8	6452.2
42.5°	7443.4	7478.5	7683.0	7948.3	8099.4	8095.7	7839.6	7426.9	7012.3	6876.0	6901.8
45°	7837.8	7869.1	8106.7	8410.8	8631.9	8659.5	8379.5	7942.7	7517.2	7342.2	7349.5
47.5°	8116.0	8174.9	8423.6	8771.9	9072.2	9169.8	8895.3	8467.9	7977.8	7795.4	7806.4
50°	8327.8	8364.7	8635.6	9031.7	9411.2	9613.9	9392.8	8954.3	8438.4	8244.9	8270.7
52.5°	8353.7	8397.9	8692.7	9149.6	9636.0	9943.6	9835.0	9429.6	8908.2	8709.2	8764.5
55°	8143.6	8169.4	8521.3	9075.9	9724.4	10188.7	10216.4	9871.8	9356.0	9204.8	9241.7
57.5°	7544.8	7611.1	8057.0	8731.3	9602.8	10319.5	10501.9	10273.5	9809.2	9660.0	9718.9
60°	6562.8	6629.1	7076.8	7931.7	9144.0	10258.8	10737.8	10629.1	10220.0	10100.2	10131.6
62.5°	5142.3	5136.7	5691.3	6739.7	8232.0	9960.2	10912.8	10971.8	10625.4	10474.3	10522.2
65°	3333.0	3349.5	3885.8	5015.1	6855.7	9201.1	10951.5	11408.4	11023.3	10794.9	10829.9
66°	2680.8	2730.5	3185.6	4226.5	6153.8	8703.7	10835.4	11537.4	11144.9	10868.6	10885.1
67.5°	1978.8	1969.5	2343.6	3146.9	4913.8	7758.6	10472.5	11618.4	11283.1	10934.9	10942.3
70°	1129.4	1127.6	1260.2	1728.3	2888.9	5462.9	8827.1	11229.7	11563.2	11174.5	11154.2
72.5°	825.4	819.9	838.3	954.4	1409.4	2758.1	6089.3	9814.7	11419.4	11135.8	11078.6
75°	692.7	689.1	685.4	700.1	790.4	1249.1	3231.6	7060.3	9908.7	10452.2	10393.2
77.5°	565.7	565.7	567.5	563.8	567.5	657.7	1339.5	3784.4	6034.0	6736.0	6900.0
80°	442.2	440.3	471.6	458.8	429.3	421.9	593.2	1217.9	2002.8	1991.7	1643.5
82.5°	326.1	304.0	359.3	350.0	316.9	269.0	346.4	519.6	668.8	434.8	322.4
85°	206.4	204.5	254.2	232.1	193.4	127.2	165.8	222.9	276.4	167.7	136.3
87.5°	36.8	35.0	81.1	59.0	59.0	36.8	46.1	60.8	90.2	62.7	46.1
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)