

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: P652485

Luminaire Tested: **GALN-SA7B-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28277.8 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

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

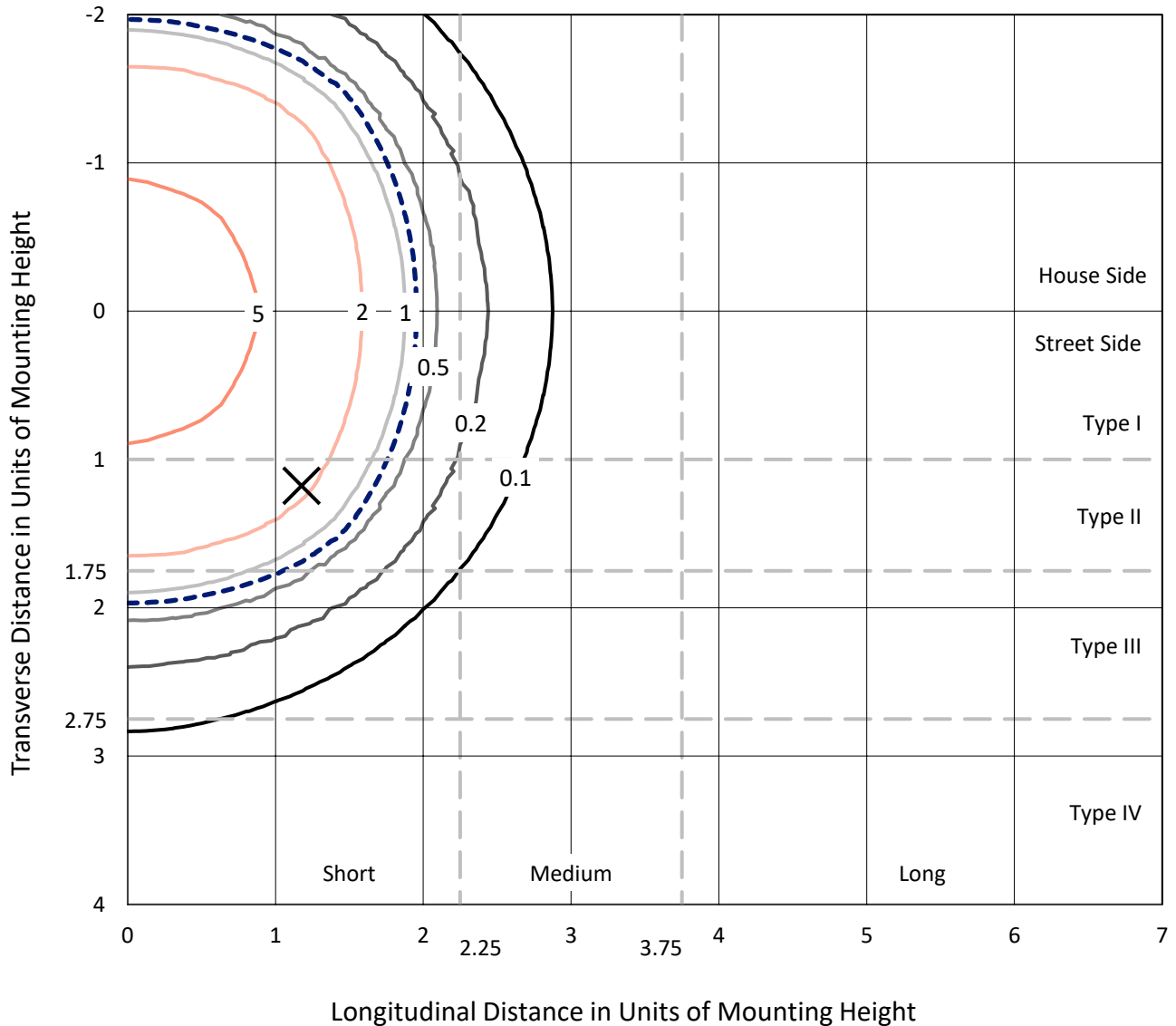




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Iso-Footcandle Lines of Horizontal Illumination

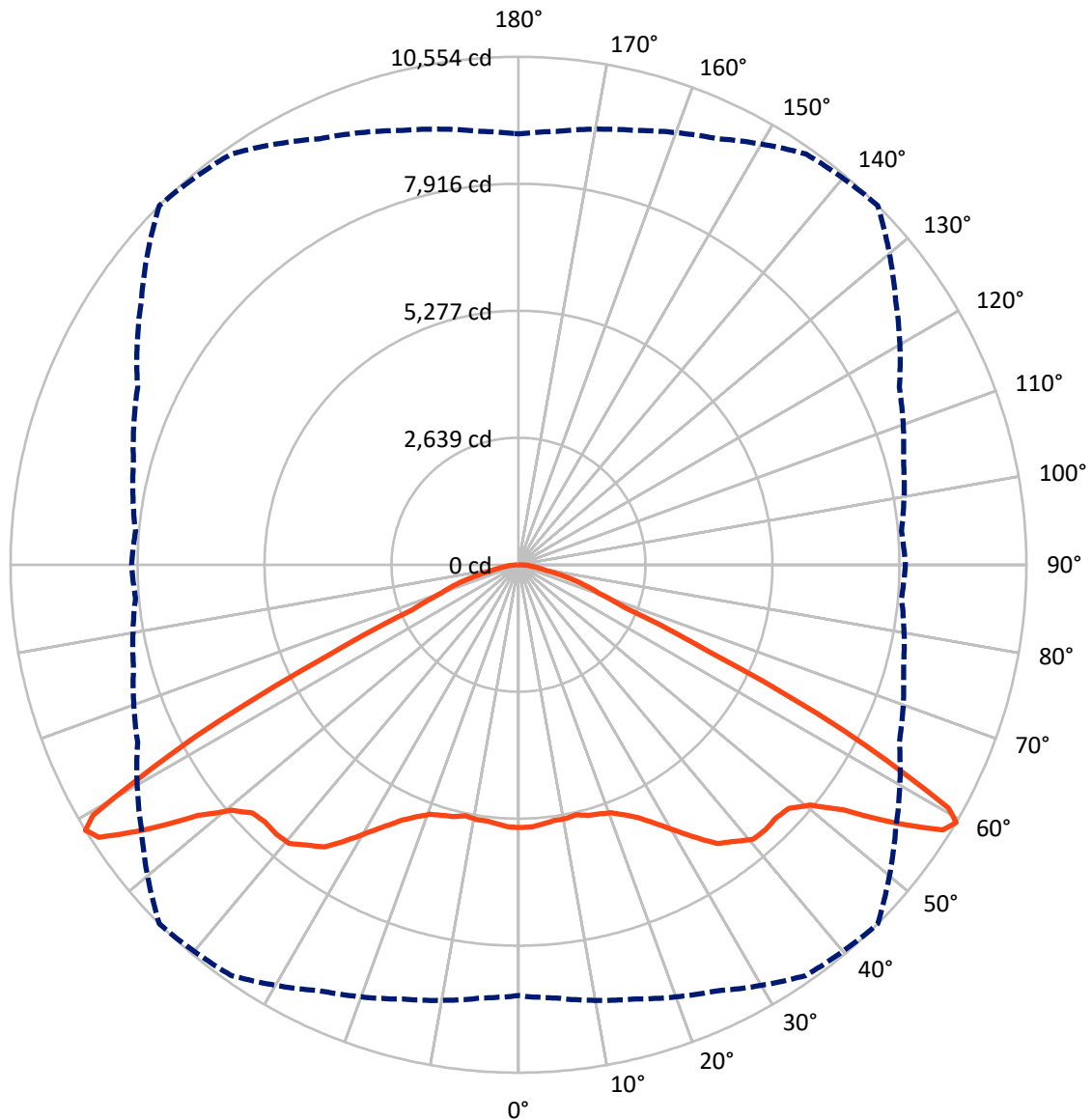
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14138.9	0.0	14138.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14138.9	0.0	14138.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	28277.8	0.0	28277.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.9	1.8
10°-20°	1531.2	5.4
20°-30°	2673.6	9.5
30°-40°	4270.1	15.1
40°-50°	5816.8	20.6
50°-60°	7865.8	27.8
60°-70°	4313.6	15.3
70°-80°	1103.6	3.9
80°-90°	188.2	0.7
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°	28277.8	100.0
0°-180°	28277.8	100.0

Coefficient of Utilization



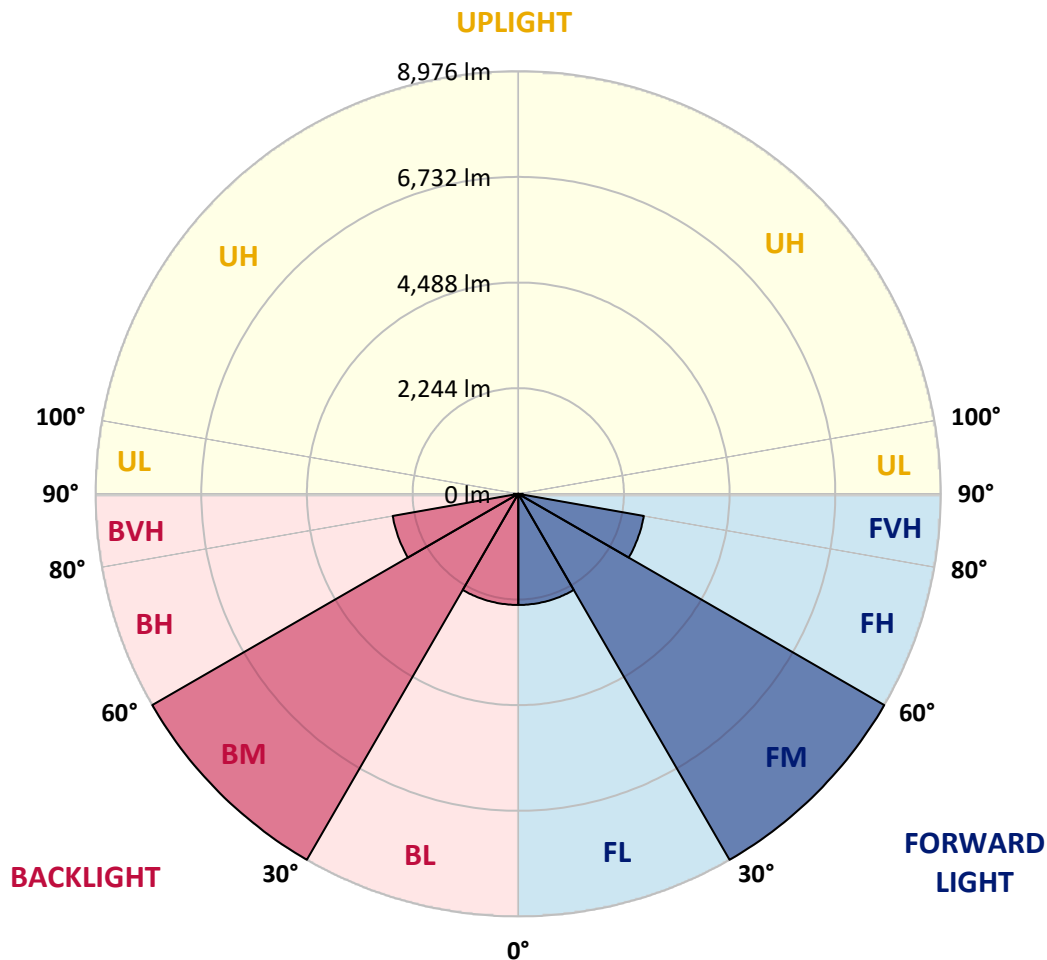
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2359.8	8.3			
FM (30°-60°)	8976.4	31.7			
FH (60°-80°)	2708.6	9.6			G2/5000
FVH (80°-90°)	94.1	0.3			G1/100
BL (0°-30°)	2359.8	8.3	B3/2500		
BM (30°-60°)	8976.4	31.7	B5		
BH (60°-80°)	2708.6	9.6	B4/5000		G2/5000
BVH (80°-90°)	94.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9	5461.9
2.5°	5429.3	5469.2	5440.2	5465.6	5461.9	5451.0	5432.9	5422.0	5407.5	5429.3	5393.1
5°	5407.5	5440.2	5472.8	5429.3	5429.3	5407.5	5396.7	5374.9	5374.9	5371.3	5367.7
7.5°	5443.8	5411.2	5396.7	5403.9	5411.2	5364.1	5396.7	5353.2	5317.0	5342.3	5371.3
10°	5411.2	5425.7	5371.3	5396.7	5356.8	5364.1	5342.3	5371.3	5331.4	5331.4	5331.4
12.5°	5443.8	5403.9	5422.0	5403.9	5393.1	5331.4	5360.4	5327.8	5324.2	5360.4	5327.8
15°	5509.1	5443.8	5429.3	5393.1	5403.9	5403.9	5374.9	5378.5	5338.7	5360.4	5367.7
17.5°	5487.3	5451.0	5440.2	5396.7	5432.9	5443.8	5389.5	5353.2	5378.5	5374.9	5371.3
20°	5505.4	5519.9	5509.1	5516.3	5530.8	5501.8	5451.0	5400.3	5367.7	5414.8	5411.2
22.5°	5621.4	5606.9	5599.6	5592.4	5617.8	5646.7	5577.9	5498.1	5498.1	5530.8	5545.3
25°	5715.6	5712.0	5708.4	5741.0	5828.0	5828.0	5741.0	5639.5	5614.2	5635.9	5617.8
27.5°	5853.4	5893.2	5878.8	5936.7	6063.5	6092.5	5976.6	5857.0	5788.1	5762.7	5795.3
30°	6168.7	6121.6	6132.4	6194.0	6306.4	6400.6	6223.1	6096.2	6002.0	5998.3	6012.8
32.5°	6378.9	6415.1	6447.8	6505.7	6683.3	6755.8	6542.0	6335.4	6277.4	6244.8	6255.6
35°	6799.3	6766.7	6759.5	6817.4	6995.0	7114.6	6846.4	6665.2	6589.1	6661.6	6661.6
37.5°	7198.0	7107.4	7038.5	7114.6	7277.8	7292.2	7063.9	6966.0	6926.1	7009.5	7005.9
40°	7386.4	7379.2	7219.7	7263.2	7480.7	7502.4	7288.6	7172.6	7165.4	7274.1	7382.8
42.5°	7582.2	7513.3	7353.9	7382.8	7516.9	7524.2	7321.2	7288.6	7368.3	7473.5	7480.7
45°	7614.8	7556.8	7455.3	7382.8	7480.7	7502.4	7382.8	7404.6	7411.8	7538.6	7538.6
47.5°	7680.0	7672.8	7614.8	7560.4	7578.5	7560.4	7484.3	7516.9	7625.7	7687.2	7658.3
50°	7861.2	7785.1	7843.1	7796.0	7799.6	7850.4	7781.5	7814.2	7792.4	7738.0	7701.8
52.5°	8260.0	8223.7	8274.4	8307.1	8343.3	8459.3	8379.6	8205.6	8042.5	7897.5	7893.9
55°	8843.5	8868.8	8966.7	9133.4	9274.7	9459.6	9075.4	8658.6	8397.6	8169.3	8183.8
57.5°	9394.4	9376.2	9510.4	9890.9	10304.1	10398.3	9644.4	9050.0	8626.0	8481.0	8419.4
59°	8952.2	9039.2	9343.6	9767.6	10416.5	10554.1	9568.3	8731.1	8281.7	7988.1	8038.9
60°	8256.3	8288.9	8560.7	9151.5	10028.6	10264.2	9057.3	8238.2	7640.1	7469.8	7546.0
62.5°	5835.2	5809.9	6005.6	6487.6	7274.1	7593.1	6734.1	6157.8	5780.9	5592.4	5635.9
65°	3102.4	3218.4	3298.1	3599.0	4015.8	4352.8	3997.7	3747.6	3537.4	3381.5	3377.9
67.5°	2094.8	2080.4	2098.5	2167.3	2308.7	2403.0	2395.7	2268.8	2250.8	2221.8	2254.4
70°	1765.1	1757.9	1725.2	1725.2	1754.2	1775.9	1801.3	1815.8	1844.8	1881.1	1877.4
72.5°	1431.6	1413.5	1391.8	1380.9	1417.1	1428.0	1460.6	1475.1	1500.5	1496.9	1529.4
75°	946.0	946.0	971.4	1000.3	1011.2	1032.9	1036.5	1080.1	1080.1	1087.3	1058.3
77.5°	529.2	514.7	532.8	561.8	587.2	627.0	666.9	699.5	717.6	710.4	710.4
80°	308.1	308.1	326.2	358.8	391.4	427.6	456.7	482.1	500.1	492.9	478.4
82.5°	192.1	192.1	210.2	242.8	268.2	290.0	329.8	362.5	384.2	376.9	358.8
85°	97.9	97.9	119.6	141.4	174.0	188.5	184.9	170.4	166.7	148.6	148.6
87.5°	25.4	25.4	36.2	39.9	32.6	36.2	36.2	36.2	36.2	36.2	39.9
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)