

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: P652482

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
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-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30022 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

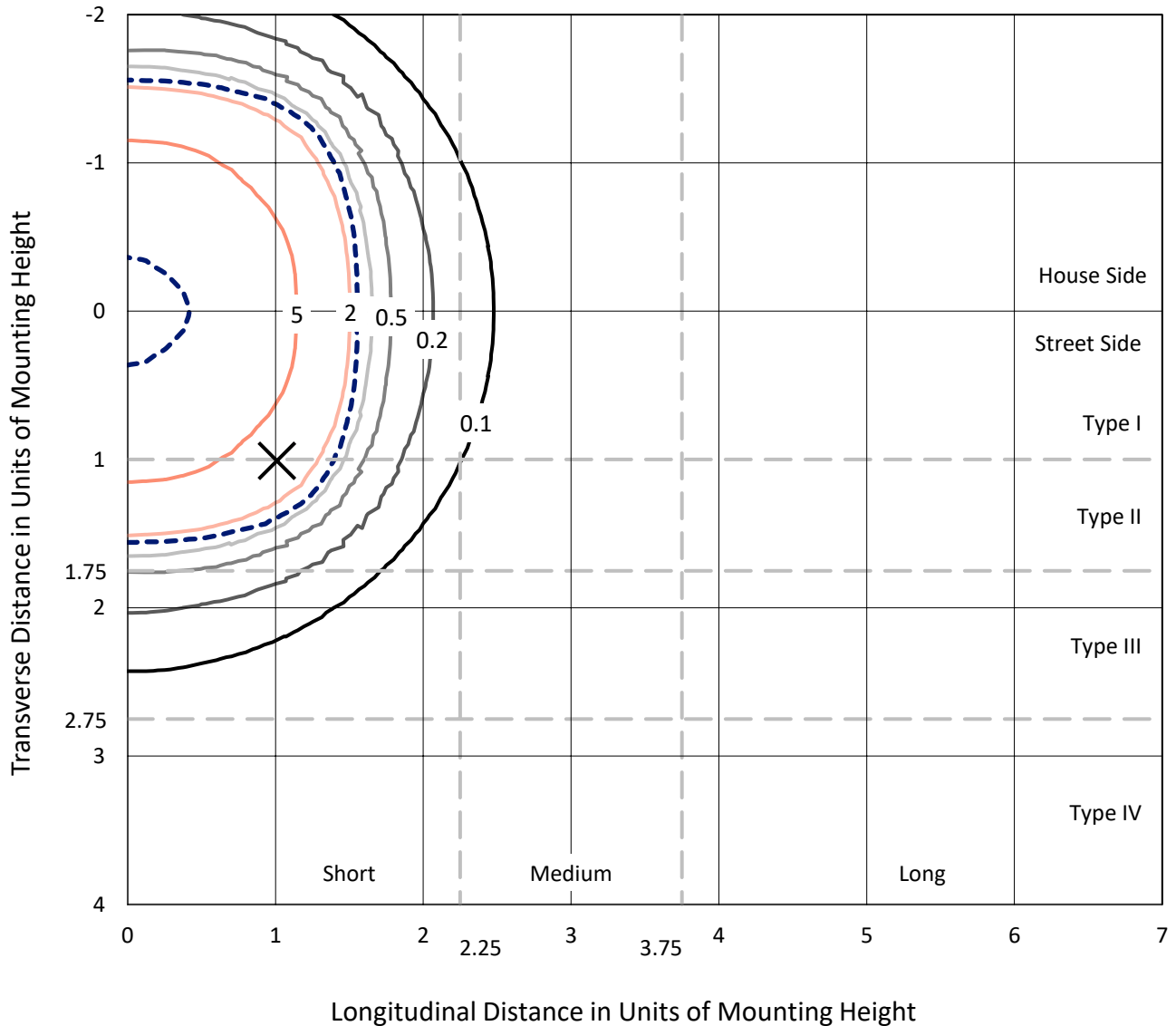
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

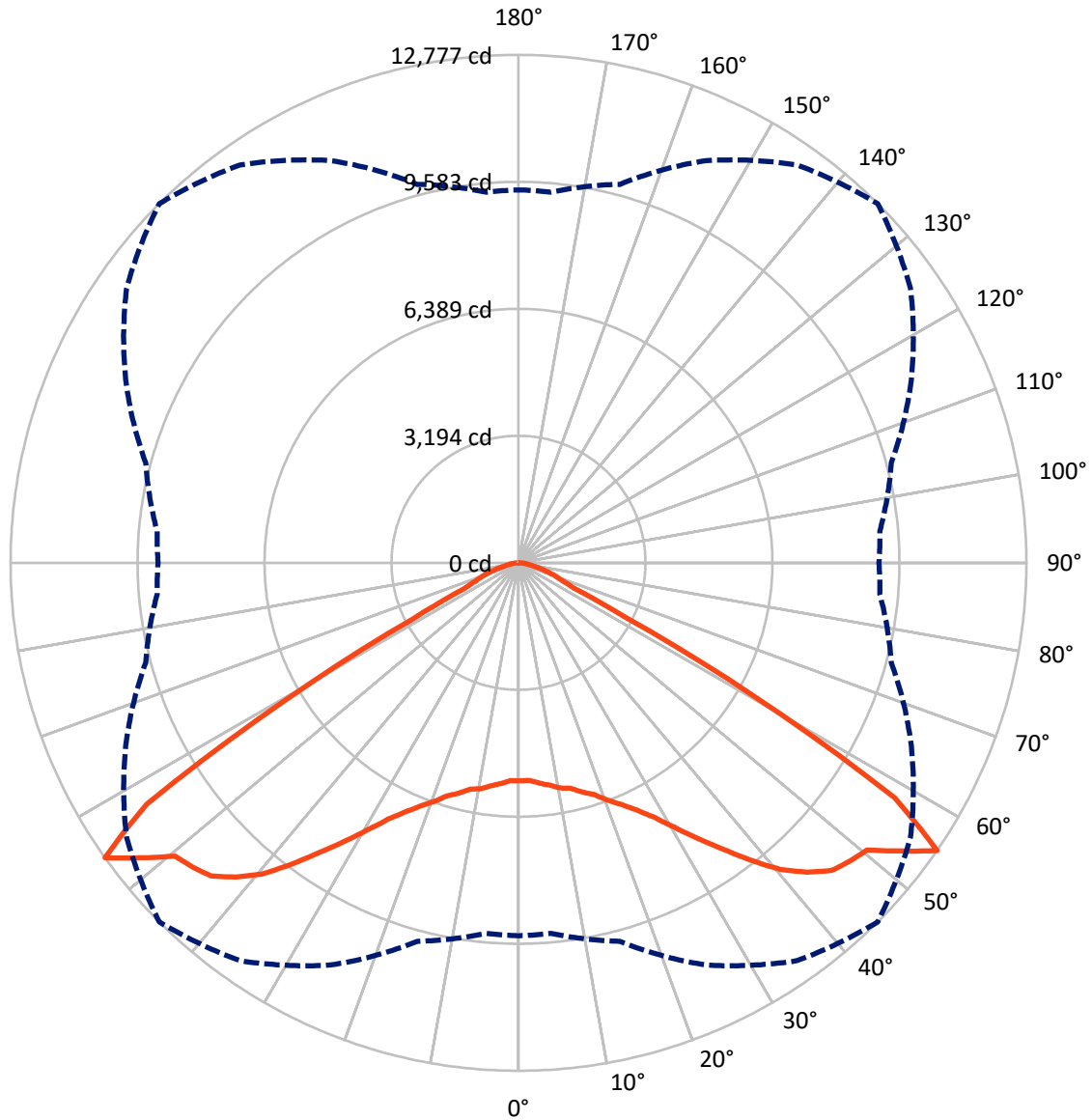
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15011.0	0.0	15011.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15011.0	0.0	15011.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30022.0	0.0	30022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.5	1.8
10°-20°	1696.7	5.7
20°-30°	3163.9	10.5
30°-40°	5297.3	17.6
40°-50°	8243.1	27.5
50°-60°	8558.9	28.5
60°-70°	1815.1	6.0
70°-80°	597.8	2.0
80°-90°	113.9	0.4
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°	30022.0	100.0
0°-180°	30022.0	100.0

Coefficient of Utilization

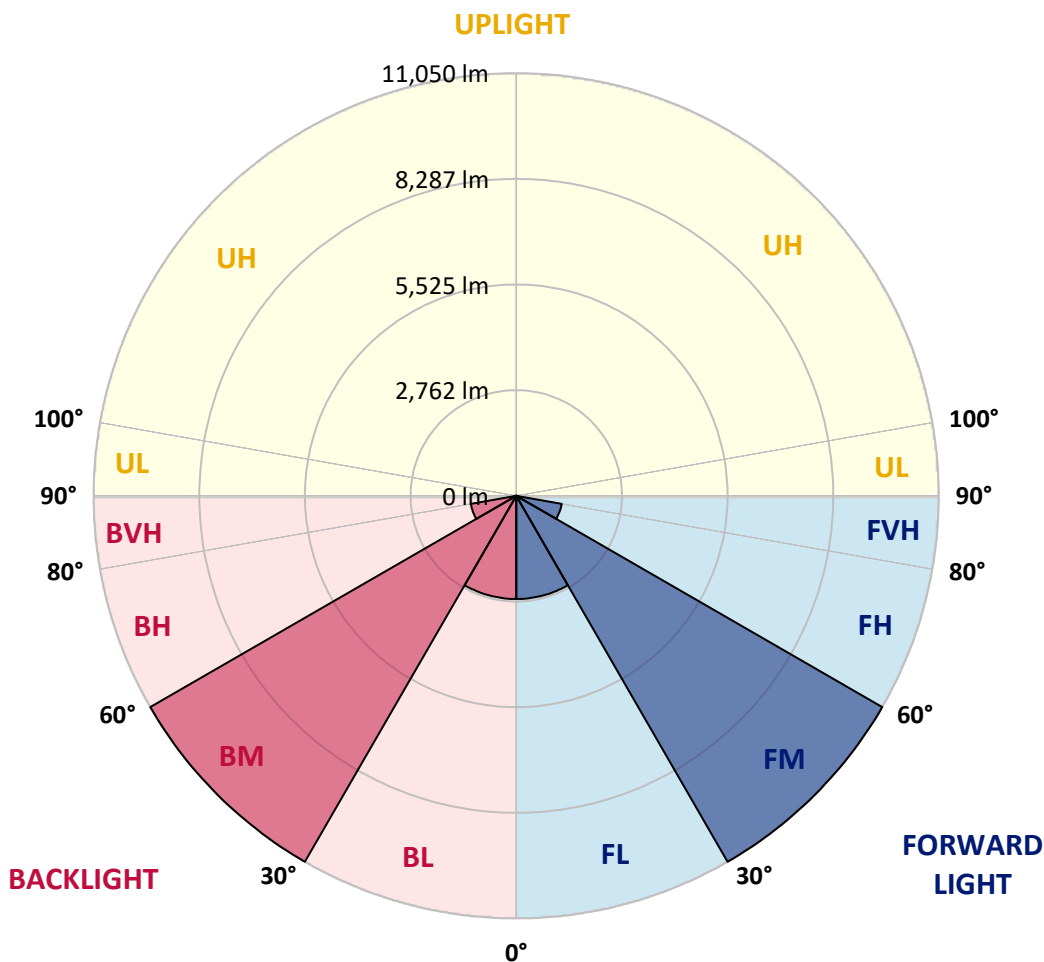


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2698.0	9.0			
FM (30°-60°)	11049.6	36.8			
FH (60°-80°)	1206.4	4.0			G1/1800
FVH (80°-90°)	56.9	0.2			G1/100
BL (0°-30°)	2698.0	9.0	B4/5000		
BM (30°-60°)	11049.6	36.8	B5		
BH (60°-80°)	1206.4	4.0	B3/2500		G1/1800
BVH (80°-90°)	56.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6	5481.6
2.5°	5546.9	5521.5	5477.9	5510.6	5536.0	5481.6	5503.3	5514.2	5507.0	5477.9	5488.8
5°	5626.7	5612.2	5575.9	5601.3	5568.6	5568.6	5546.9	5517.9	5561.4	5554.1	5572.3
7.5°	5626.7	5608.5	5681.1	5633.9	5648.5	5648.5	5612.2	5583.1	5604.9	5572.3	5554.1
10°	5739.2	5764.6	5731.9	5742.8	5735.5	5760.9	5706.5	5688.4	5670.2	5659.3	5637.6
12.5°	5873.4	5855.2	5866.1	5858.8	5884.2	5819.0	5786.3	5746.4	5779.0	5731.9	5764.6
15°	5982.2	5971.4	5982.2	6011.2	5985.8	5982.2	5924.2	5884.2	5833.4	5844.4	5793.6
17.5°	6131.0	6120.0	6123.7	6149.1	6145.4	6127.4	6083.8	6007.6	5989.4	5960.4	5927.8
20°	6352.2	6334.1	6326.8	6337.7	6355.9	6370.4	6283.3	6254.3	6192.6	6145.4	6091.0
22.5°	6540.9	6533.6	6562.7	6515.5	6555.4	6598.9	6515.5	6501.0	6348.6	6323.2	6265.2
25°	6802.1	6791.2	6773.1	6842.0	6889.1	6885.5	6805.7	6725.9	6609.8	6580.8	6580.8
27.5°	7077.8	7016.1	7110.5	7128.6	7212.0	7237.4	7168.5	7052.4	6943.5	6881.9	6896.4
30°	7422.4	7364.4	7386.2	7516.8	7625.6	7719.9	7545.8	7375.2	7222.9	7114.1	7095.9
32.5°	7767.1	7709.0	7774.3	7901.3	8118.9	8260.5	8089.9	7792.5	7614.7	7455.0	7487.8
35°	8046.4	8089.9	8195.1	8387.5	8612.3	8840.9	8568.8	8340.3	8086.3	7908.6	7933.9
37.5°	8496.3	8630.5	8713.9	8935.2	9254.4	9490.3	9207.3	8909.8	8637.7	8405.5	8325.7
40°	9084.0	9174.6	9269.0	9530.2	9907.5	10143.3	9874.9	9486.6	9218.2	8978.8	8967.8
42.5°	9729.7	9816.7	9914.7	10234.0	10458.8	10636.6	10390.0	10183.2	9885.7	9697.1	9686.1
45°	10480.6	10419.0	10527.8	10738.2	10926.9	11042.9	10883.3	10781.8	10567.8	10393.6	10375.4
47.5°	10981.3	10926.9	11122.7	11311.4	11340.5	11213.5	11246.1	11340.5	11115.5	10828.9	10919.6
50°	11271.5	11271.5	11402.1	11576.3	11521.8	11358.5	11616.1	11623.4	11398.5	11144.5	11144.5
52.5°	10767.2	10879.7	11249.7	11819.3	12000.6	12047.8	11989.8	11743.1	11155.4	10636.6	10611.2
55°	9381.4	9356.0	9856.7	11162.7	12218.4	12777.1	12037.0	10901.5	9707.9	9123.8	9065.8
57.5°	6102.0	6131.0	6878.3	8209.7	10114.3	11155.4	9907.5	8311.3	6878.3	6072.9	6149.1
60°	2746.2	2844.2	3297.6	4291.6	5927.8	6776.7	5942.3	4509.4	3460.9	3003.8	3043.7
62.5°	1578.1	1596.2	1614.4	1915.5	2524.9	2985.6	2622.9	2024.3	1784.9	1705.0	1705.0
65°	1331.4	1320.5	1324.2	1349.6	1414.8	1509.2	1469.2	1414.8	1422.1	1414.8	1404.0
67.5°	1131.9	1146.4	1135.5	1153.6	1157.3	1171.8	1197.2	1218.9	1222.6	1229.8	1222.6
70°	928.7	932.3	939.6	954.1	957.7	968.6	1004.9	1023.0	1033.9	1033.9	1048.4
72.5°	711.1	707.4	714.7	729.1	747.3	750.9	783.6	809.0	823.5	805.3	809.0
75°	468.0	471.6	482.5	493.4	518.8	544.1	555.1	580.5	584.1	591.3	573.2
77.5°	279.4	286.6	297.5	319.2	341.0	362.8	388.2	406.3	413.6	406.3	384.5
80°	181.4	181.4	195.9	214.0	239.4	257.6	272.1	286.6	297.5	286.6	279.4
82.5°	112.4	112.4	130.6	152.4	170.5	181.4	203.2	221.3	232.2	224.9	214.0
85°	58.0	61.6	76.2	94.4	108.8	116.1	112.4	101.6	90.7	87.0	79.8
87.5°	18.2	18.2	21.8	21.8	18.2	18.2	21.8	18.2	21.8	21.8	21.8
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)