

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: P456919

Luminaire Tested: **GALN-SA8B-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40103 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

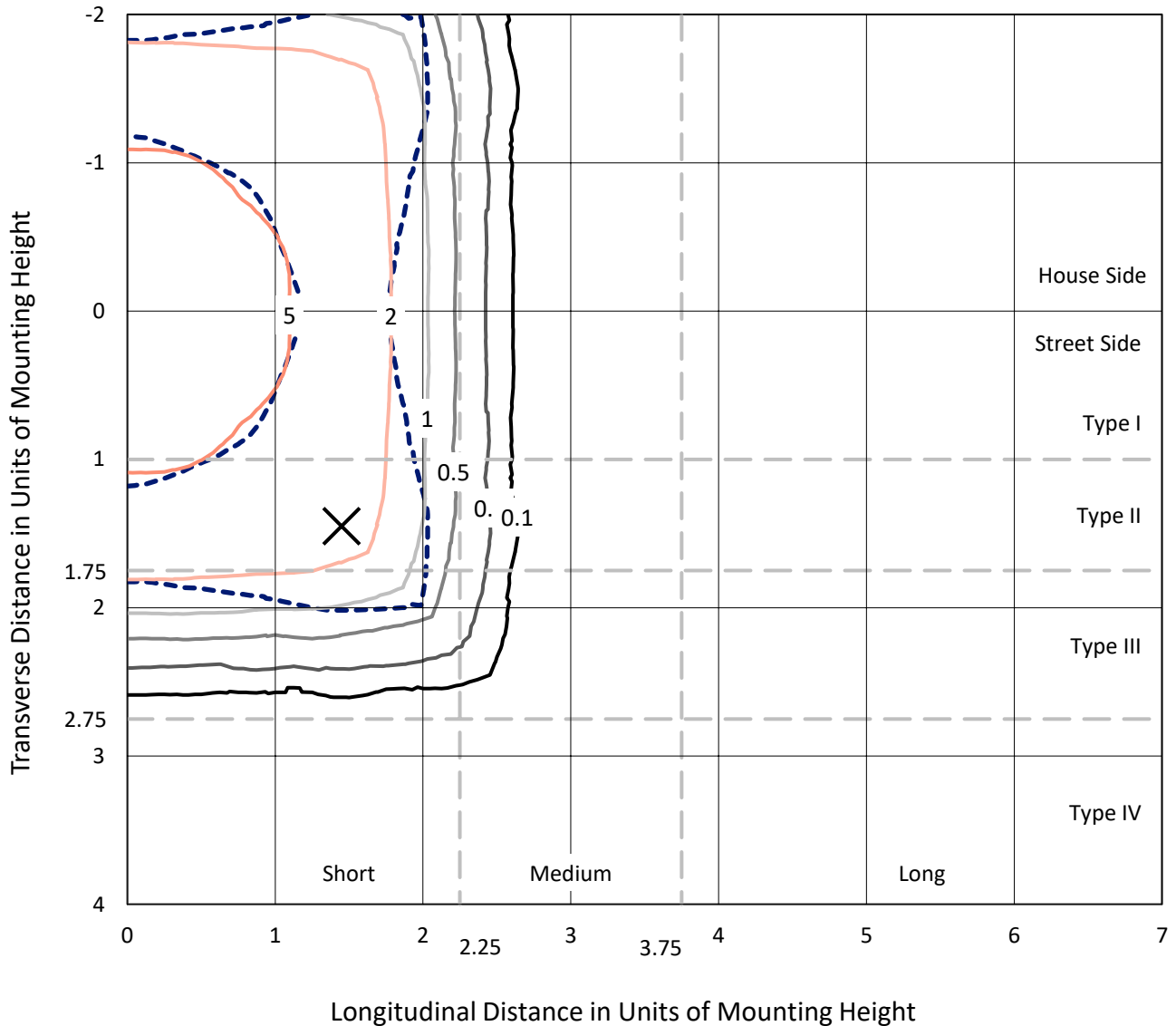
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

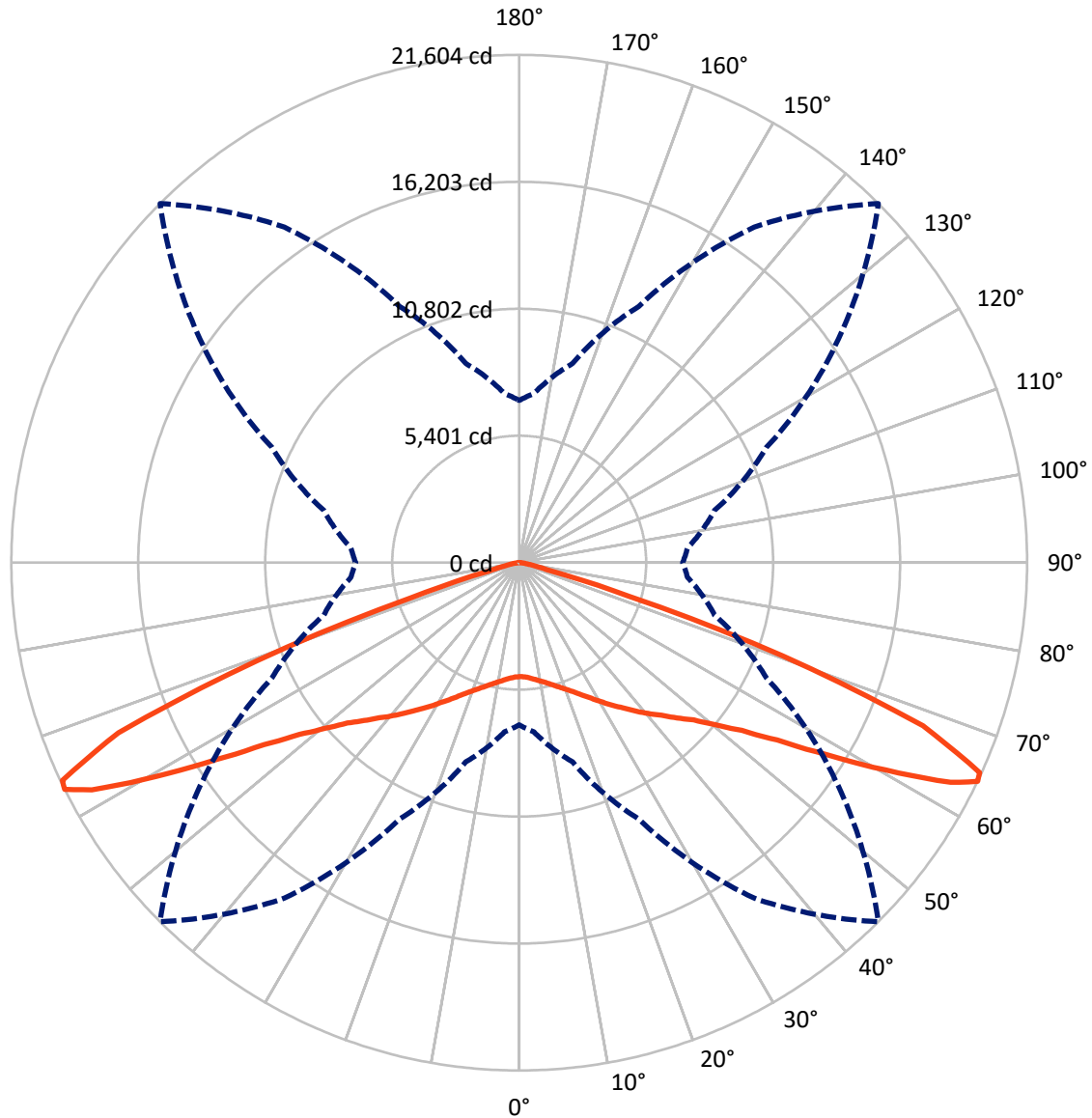
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20051.5	0.0	20051.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20051.5	0.0	20051.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40103.0	0.0	40103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.2	1.2
10°-20°	1536.0	3.8
20°-30°	2902.7	7.2
30°-40°	4807.2	12.0
40°-50°	7504.8	18.7
50°-60°	11602.2	28.9
60°-70°	10004.4	24.9
70°-80°	1133.8	2.8
80°-90°	135.8	0.3
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°	40103.0	100.0
0°-180°	40103.0	100.0

Coefficient of Utilization



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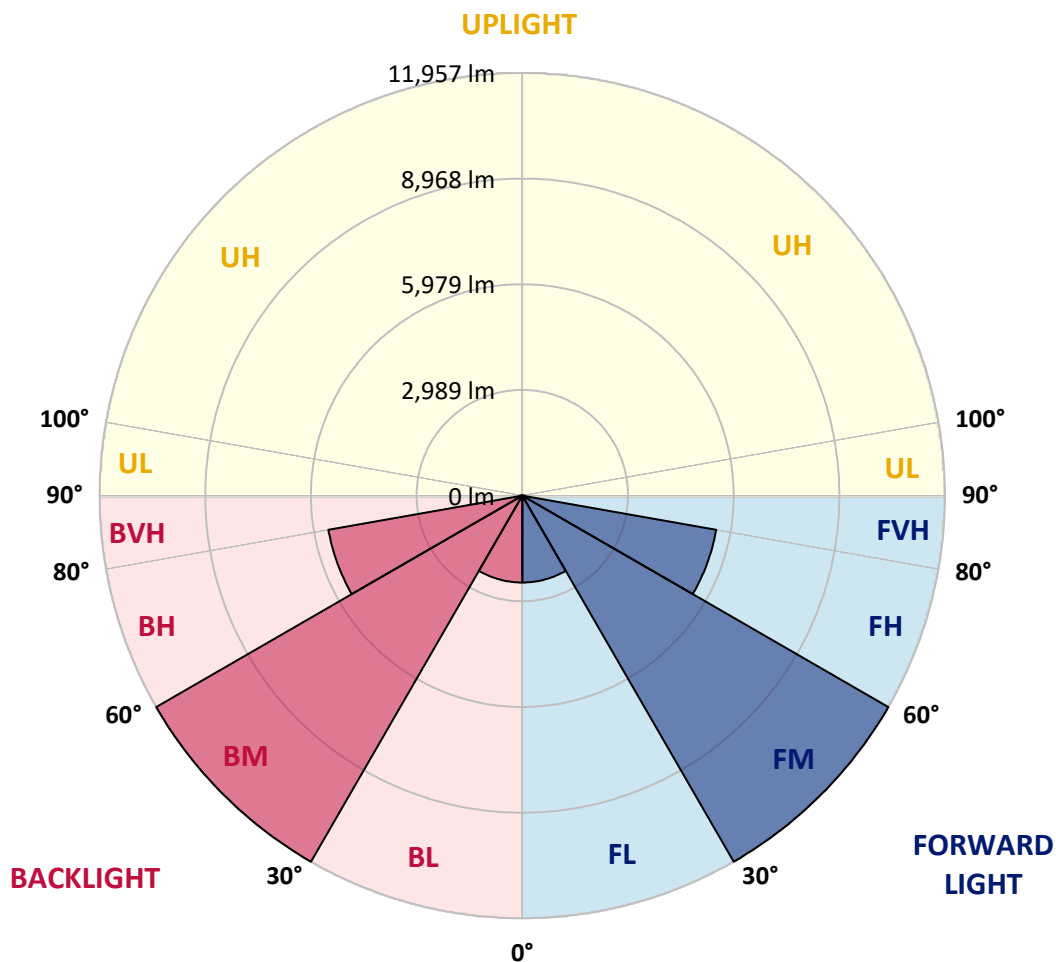
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2457.5	6.1			
FM	(30°-60°)	11957.0	29.8			
FH	(60°-80°)	5569.1	13.9			G3/7500
FVH	(80°-90°)	67.9	0.2			G1/100
BL	(0°-30°)	2457.5	6.1	B3/2500		
BM	(30°-60°)	11957.0	29.8	B5		
BH	(60°-80°)	5569.1	13.9	B5		G3/7500
BVH	(80°-90°)	67.9	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4847.1	4847.1	4847.1	4847.1	4847.1	4847.1	4847.1	4847.1	4847.1	4847.1	4847.1
2.5°	4866.2	4876.9	4868.4	4866.2	4864.1	4864.1	4864.1	4866.2	4874.7	4881.1	4876.9
5°	4927.8	4936.3	4932.1	4930.0	4927.8	4930.0	4925.7	4923.6	4930.0	4930.0	4927.8
7.5°	5004.3	5014.9	5010.7	5014.9	5017.0	5019.2	5008.6	5000.1	4997.9	5004.3	5000.1
10°	5108.4	5116.9	5119.0	5121.1	5125.4	5123.3	5110.5	5095.6	5093.5	5091.4	5089.3
12.5°	5225.2	5231.6	5233.7	5242.2	5248.6	5250.7	5235.8	5223.1	5201.8	5206.1	5197.6
15°	5356.9	5369.6	5367.5	5380.3	5397.3	5401.5	5386.6	5365.4	5346.3	5335.7	5329.3
17.5°	5518.3	5526.8	5522.6	5535.3	5556.6	5567.2	5554.4	5526.8	5507.7	5484.3	5471.6
20°	5709.5	5724.4	5728.6	5728.6	5747.7	5758.3	5739.2	5730.7	5701.0	5684.0	5673.4
22.5°	5926.1	5932.5	5945.3	5958.0	5977.1	5972.9	5966.5	5953.8	5926.1	5911.3	5894.3
25°	6170.4	6176.8	6208.6	6236.3	6242.6	6238.4	6229.9	6223.5	6198.0	6164.0	6151.3
27.5°	6455.0	6467.8	6510.3	6535.8	6535.8	6537.9	6520.9	6542.1	6486.9	6446.5	6442.3
30°	6811.9	6820.4	6856.5	6882.0	6869.2	6858.6	6854.4	6875.6	6816.1	6743.9	6726.9
32.5°	7164.5	7194.2	7226.1	7281.3	7236.7	7217.6	7213.3	7228.2	7160.2	7079.5	7056.2
35°	7542.6	7563.8	7623.3	7670.0	7629.7	7585.0	7604.2	7650.9	7570.2	7461.8	7457.6
37.5°	7961.0	7980.1	8056.6	8105.4	8075.7	7999.2	8031.1	8086.3	8005.6	7871.8	7844.2
40°	8396.4	8436.8	8532.4	8583.4	8534.5	8432.5	8492.0	8551.5	8479.3	8324.2	8262.6
42.5°	8885.0	8948.7	9086.8	9112.2	9018.8	8880.7	8984.8	9080.4	9029.4	8851.0	8827.6
45°	9456.3	9494.6	9664.5	9719.7	9590.2	9418.1	9547.7	9721.9	9683.6	9477.6	9433.0
47.5°	10095.7	10131.8	10308.1	10390.9	10227.4	9995.9	10229.5	10456.8	10433.4	10212.5	10191.3
50°	10851.9	10860.4	11104.6	11198.1	11034.5	10834.9	11043.0	11325.5	11232.1	10949.6	10945.3
52.5°	11680.2	11690.9	11998.9	12179.4	12088.1	11862.9	12109.3	12281.4	12043.5	11673.9	11646.3
55°	12398.2	12451.3	12871.8	13351.9	13477.2	13313.7	13388.0	13307.3	12721.0	12202.8	12122.1
57.5°	12691.3	12795.4	13434.7	14331.1	15146.7	15388.9	14815.4	14046.5	12990.8	12258.0	12179.4
60°	11975.5	12088.1	13080.0	14781.4	16863.0	17914.4	16302.2	14171.8	12376.9	11346.8	11223.6
62.5°	9590.2	9622.0	11081.3	13721.5	17863.4	20586.5	16928.8	13103.4	10590.6	9190.8	9142.0
64°	6901.1	7228.2	8774.5	12030.7	17425.8	21603.9	16567.7	11605.9	8602.5	7185.7	6956.3
65°	5161.5	5250.7	7073.1	10274.1	16654.8	21527.4	15866.8	10174.3	7124.1	5499.2	5244.3
67.5°	1949.9	1960.5	2610.5	5121.1	11856.5	18521.9	12109.3	5535.3	3001.3	2170.8	2092.2
70°	809.3	824.1	958.0	1722.6	5095.6	11892.7	5839.1	1996.6	1098.1	890.0	877.2
72.5°	592.6	601.1	641.5	764.7	1567.6	4883.2	1920.2	847.5	643.6	575.6	569.3
75°	465.2	469.4	499.2	562.9	730.7	1353.0	798.6	582.0	490.7	441.8	437.6
77.5°	354.7	365.3	386.6	429.1	490.7	641.5	528.9	435.4	378.1	337.7	331.4
80°	244.3	257.0	297.4	314.4	329.2	416.3	361.1	329.2	295.2	246.4	231.5
82.5°	150.8	159.3	199.7	214.5	208.2	233.6	231.5	235.8	210.3	152.9	142.3
85°	78.6	82.8	108.3	112.6	104.1	95.6	118.9	138.1	129.6	87.1	85.0
87.5°	17.0	19.1	23.4	21.2	23.4	23.4	29.7	44.6	46.7	29.7	27.6
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)