

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: P652043

Luminaire Tested: **GALN-SA8A-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652043
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-SA8A-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32411.3 lumens
Efficiency: N/A
Efficacy: 132.8 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

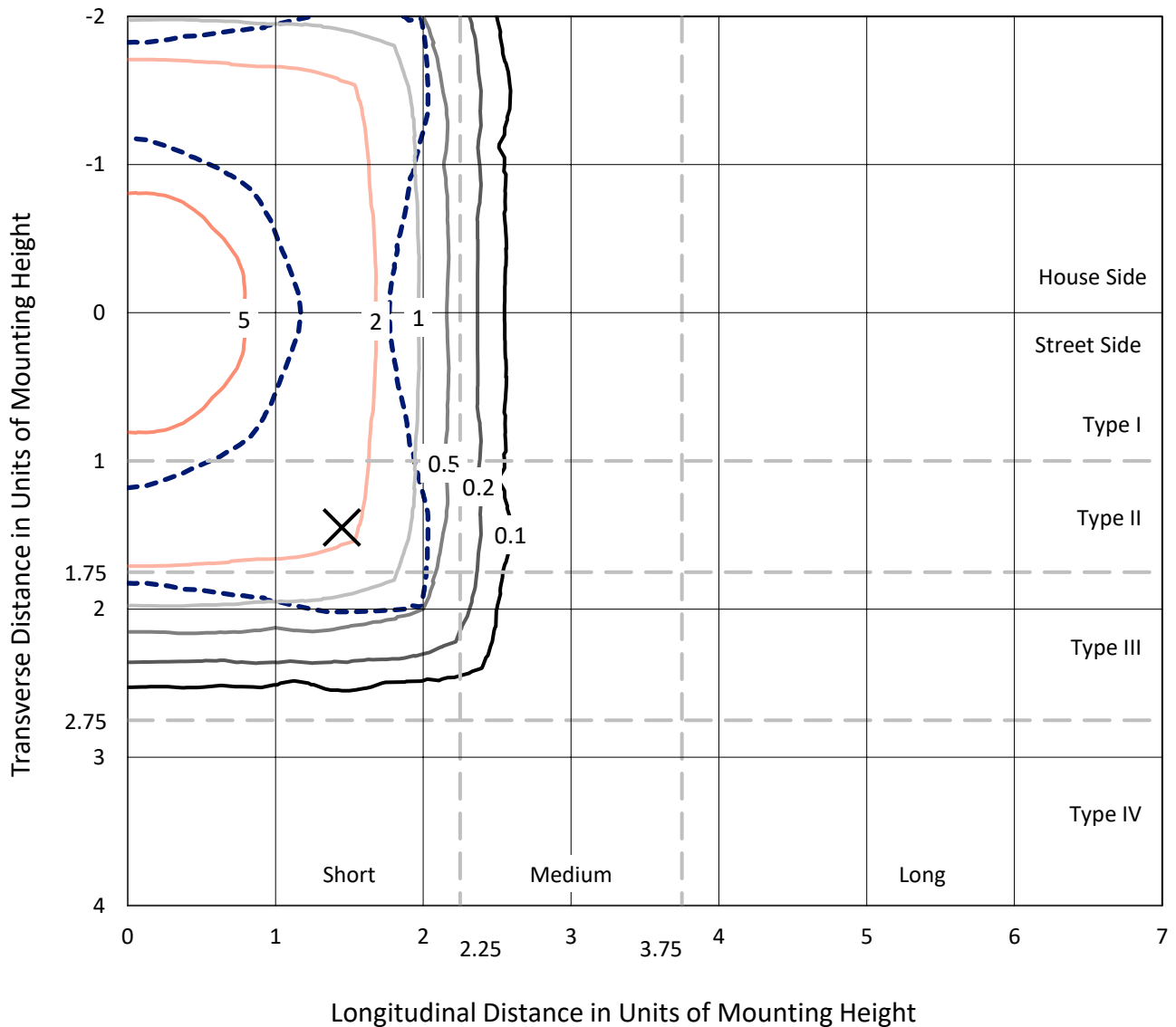
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

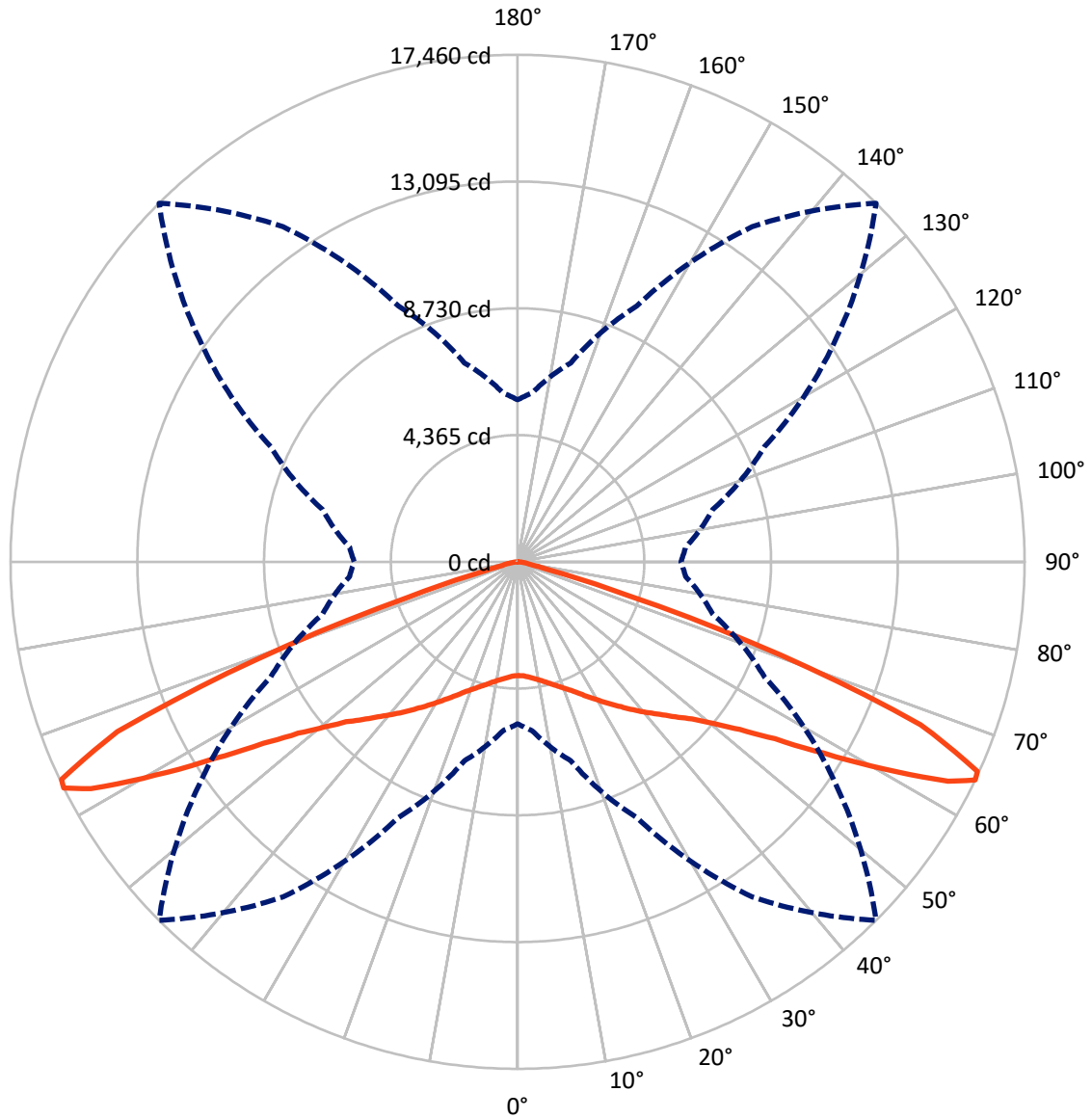
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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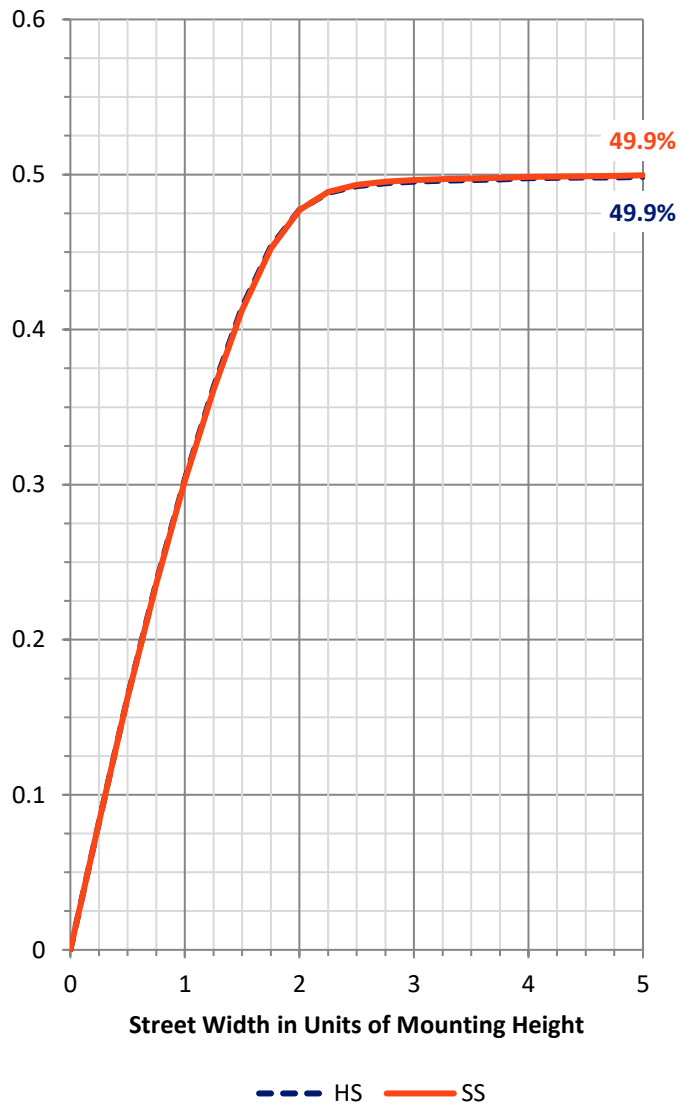
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16205.7	0.0	16205.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16205.7	0.0	16205.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	32411.3	0.0	32411.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.9	1.2
10°-20°	1241.4	3.8
20°-30°	2345.9	7.2
30°-40°	3885.2	12.0
40°-50°	6065.3	18.7
50°-60°	9376.9	28.9
60°-70°	8085.6	24.9
70°-80°	916.3	2.8
80°-90°	109.8	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°	32411.3	100.0
0°-180°	32411.3	100.0

Coefficient of Utilization



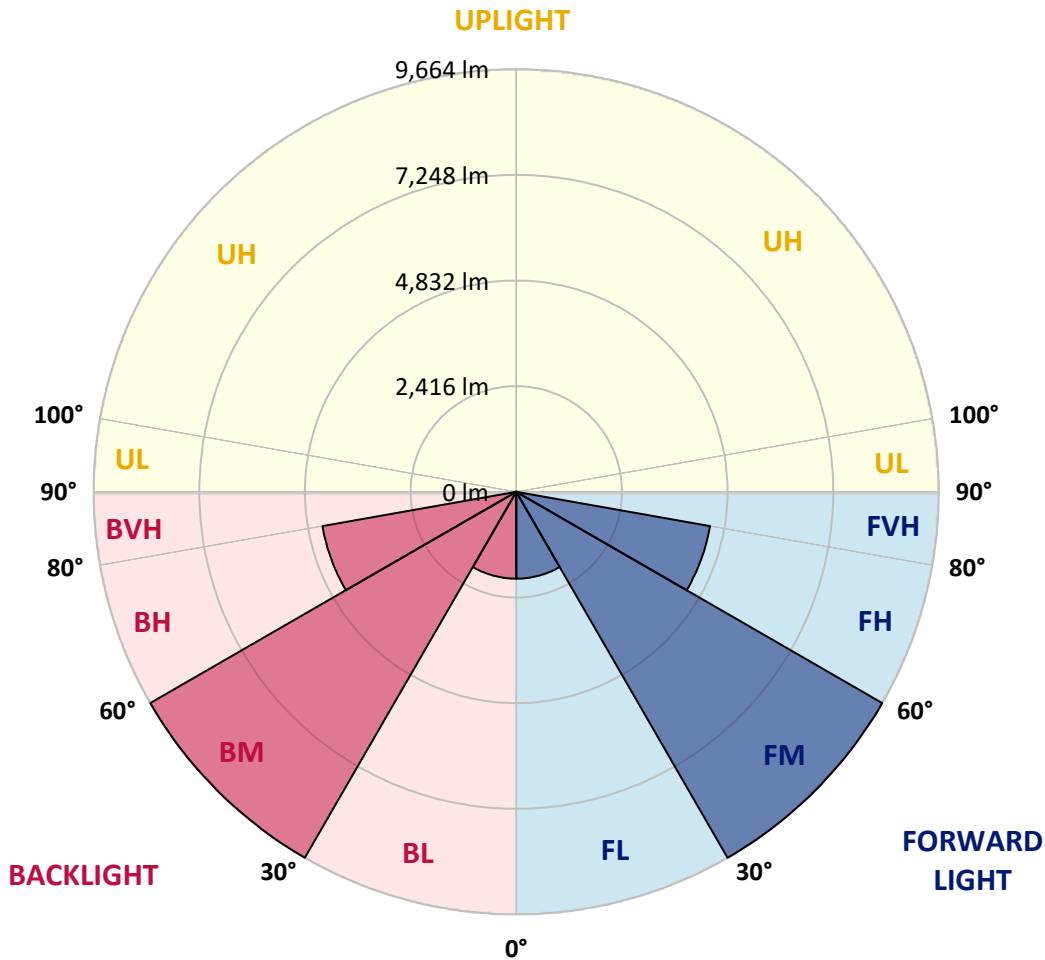
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1986.1	6.1			
FM (30°-60°)	9663.7	29.8			
FH (60°-80°)	4500.9	13.9			G2/5000
FVH (80°-90°)	54.9	0.2			G1/100
BL (0°-30°)	1986.1	6.1	B3/2500		
BM (30°-60°)	9663.7	29.8	B5		
BH (60°-80°)	4500.9	13.9	B4/5000		G2/5000
BVH (80°-90°)	54.9	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3917.5	3917.5	3917.5	3917.5	3917.5	3917.5	3917.5	3917.5	3917.5	3917.5	3917.5
2.5°	3932.9	3941.5	3934.6	3932.9	3931.2	3931.2	3931.2	3932.9	3939.7	3944.9	3941.5
5°	3982.7	3989.5	3986.1	3984.4	3982.7	3984.4	3981.0	3979.3	3984.4	3984.4	3982.7
7.5°	4044.5	4053.0	4049.7	4053.0	4054.8	4056.5	4047.9	4041.1	4039.3	4044.5	4041.1
10°	4128.6	4135.4	4137.2	4138.9	4142.3	4140.6	4130.3	4118.3	4116.6	4114.8	4113.2
12.5°	4223.0	4228.1	4229.9	4236.8	4241.9	4243.6	4231.6	4221.3	4204.2	4207.6	4200.7
15°	4329.5	4339.7	4338.0	4348.3	4362.1	4365.5	4353.5	4336.3	4320.9	4312.3	4307.1
17.5°	4459.9	4466.8	4463.4	4473.6	4490.9	4499.4	4489.1	4466.8	4451.3	4432.5	4422.1
20°	4614.4	4626.4	4629.9	4629.9	4645.3	4653.9	4638.5	4631.6	4607.6	4593.8	4585.2
22.5°	4789.5	4794.7	4805.0	4815.2	4830.7	4827.3	4822.1	4811.9	4789.5	4777.5	4763.8
25°	4987.0	4992.1	5017.8	5040.2	5045.3	5041.9	5035.0	5029.9	5009.2	4981.7	4971.5
27.5°	5217.0	5227.2	5261.6	5282.2	5282.2	5283.9	5270.2	5287.4	5242.7	5210.1	5206.6
30°	5505.4	5512.3	5541.4	5562.0	5551.7	5543.1	5539.7	5556.9	5508.8	5450.4	5436.7
32.5°	5790.4	5814.3	5840.2	5884.7	5848.7	5833.3	5829.8	5841.8	5786.9	5721.7	5702.8
35°	6095.9	6113.1	6161.2	6198.9	6166.3	6130.2	6145.7	6183.5	6118.2	6030.6	6027.3
37.5°	6434.1	6449.5	6511.4	6550.8	6526.8	6465.0	6490.8	6535.4	6470.1	6362.0	6339.7
40°	6786.0	6818.7	6895.9	6937.1	6897.6	6815.2	6863.2	6911.3	6853.0	6727.7	6677.9
42.5°	7180.9	7232.3	7343.9	7364.6	7289.0	7177.4	7261.5	7338.8	7297.6	7153.4	7134.5
45°	7642.7	7673.5	7810.9	7855.5	7750.8	7611.7	7716.4	7857.2	7826.3	7659.8	7623.7
47.5°	8159.4	8188.6	8331.0	8398.0	8265.8	8078.6	8267.5	8451.2	8432.3	8253.7	8236.6
50°	8770.5	8777.3	8974.7	9050.3	8918.1	8756.7	8925.0	9153.3	9077.8	8849.4	8846.1
52.5°	9440.0	9448.6	9697.5	9843.4	9769.6	9587.7	9786.8	9925.8	9733.6	9434.8	9412.6
55°	10020.3	10063.2	10403.1	10791.0	10892.3	10760.1	10820.2	10755.0	10281.1	9862.3	9797.1
57.5°	10257.1	10341.3	10858.0	11582.4	12241.6	12437.3	11973.8	11352.4	10499.2	9906.9	9843.4
60°	9678.6	9769.6	10571.3	11946.3	13628.7	14478.4	13175.4	11453.7	10003.0	9170.4	9070.9
62.5°	7750.8	7776.6	8955.9	11089.7	14437.2	16638.0	13681.9	10590.1	8559.4	7428.0	7388.6
64°	5577.5	5841.8	7091.6	9723.2	14083.6	17460.3	13390.1	9379.9	6952.5	5807.5	5622.1
65°	4171.5	4243.6	5716.5	8303.5	13460.5	17398.5	12823.6	8222.9	5757.7	4444.4	4238.5
67.5°	1575.9	1584.5	2109.8	4138.9	9582.4	14969.4	9786.8	4473.6	2425.7	1754.4	1690.9
70°	654.0	666.1	774.2	1392.2	4118.3	9611.6	4719.1	1613.7	887.5	719.3	709.0
72.5°	478.9	485.8	518.5	618.0	1266.9	3946.6	1551.9	685.0	520.2	465.2	460.0
75°	375.9	379.4	403.4	454.9	590.6	1093.6	645.5	470.4	396.5	357.1	353.6
77.5°	286.7	295.3	312.4	346.7	396.5	518.5	427.5	352.0	305.5	273.0	267.8
80°	197.4	207.7	240.4	254.1	266.1	336.5	291.8	266.1	238.6	199.1	187.1
82.5°	121.9	128.8	161.4	173.4	168.2	188.8	187.1	190.6	170.0	123.6	115.0
85°	63.5	66.9	87.5	91.0	84.1	77.3	96.1	111.6	104.7	70.4	68.6
87.5°	13.7	15.5	18.9	17.2	18.9	18.9	24.1	36.1	37.8	24.1	22.3
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)