

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: P651106

Luminaire Tested: **GALN-SA9C-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36822.4 lumens
Efficiency: N/A
Efficacy: 76.6 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

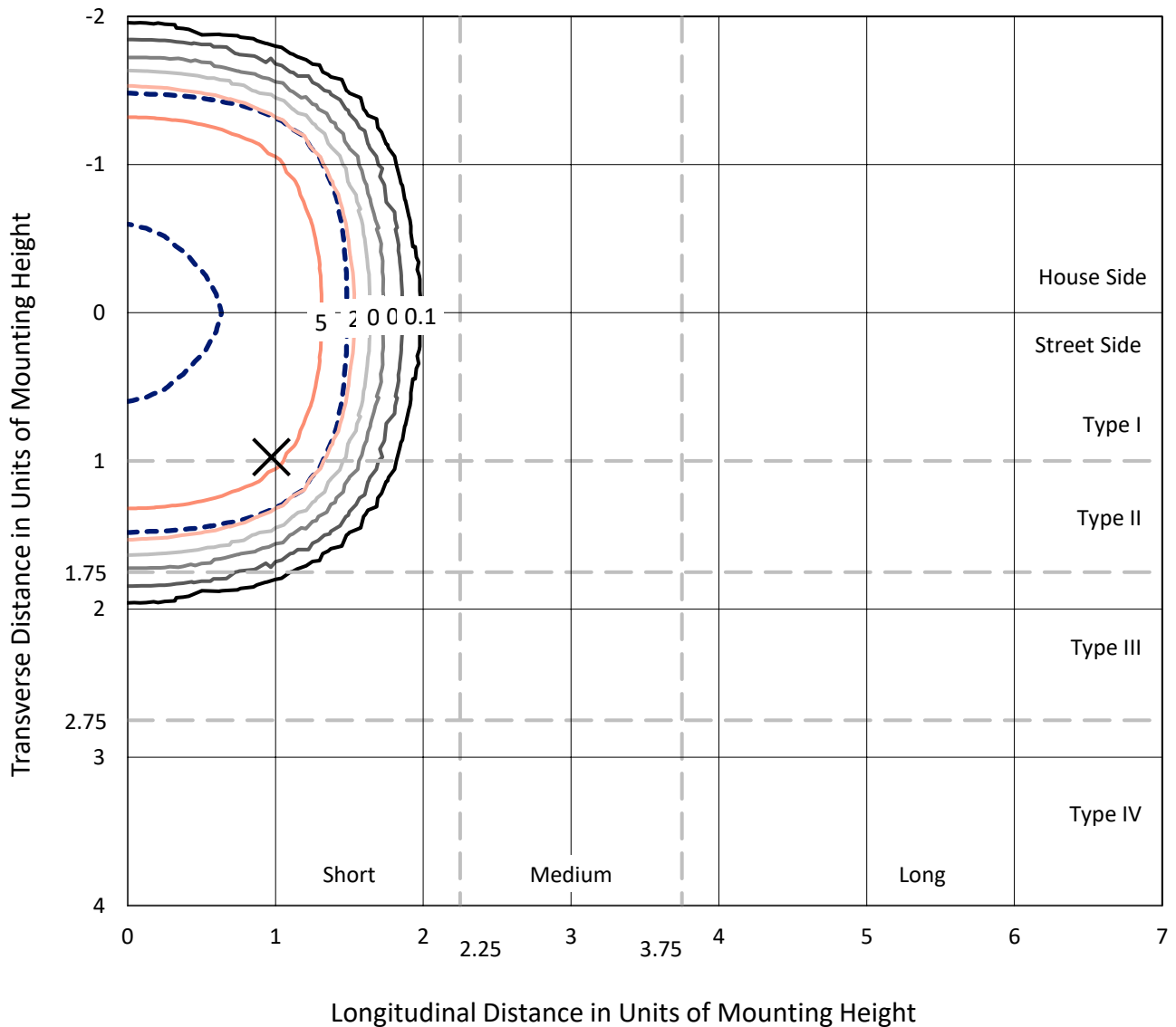
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

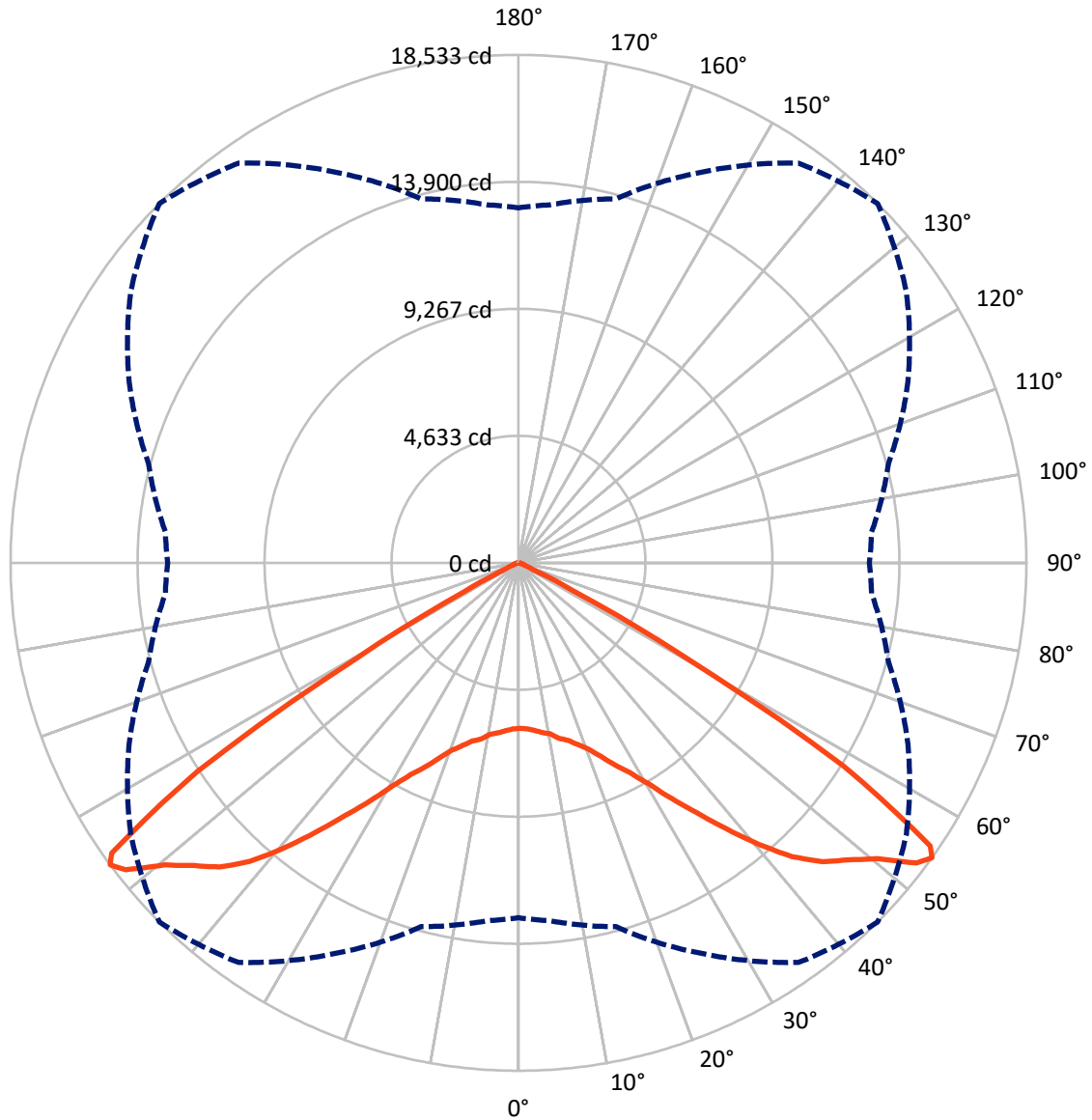
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - Horizontal Cone Through 54-Deg Vertical

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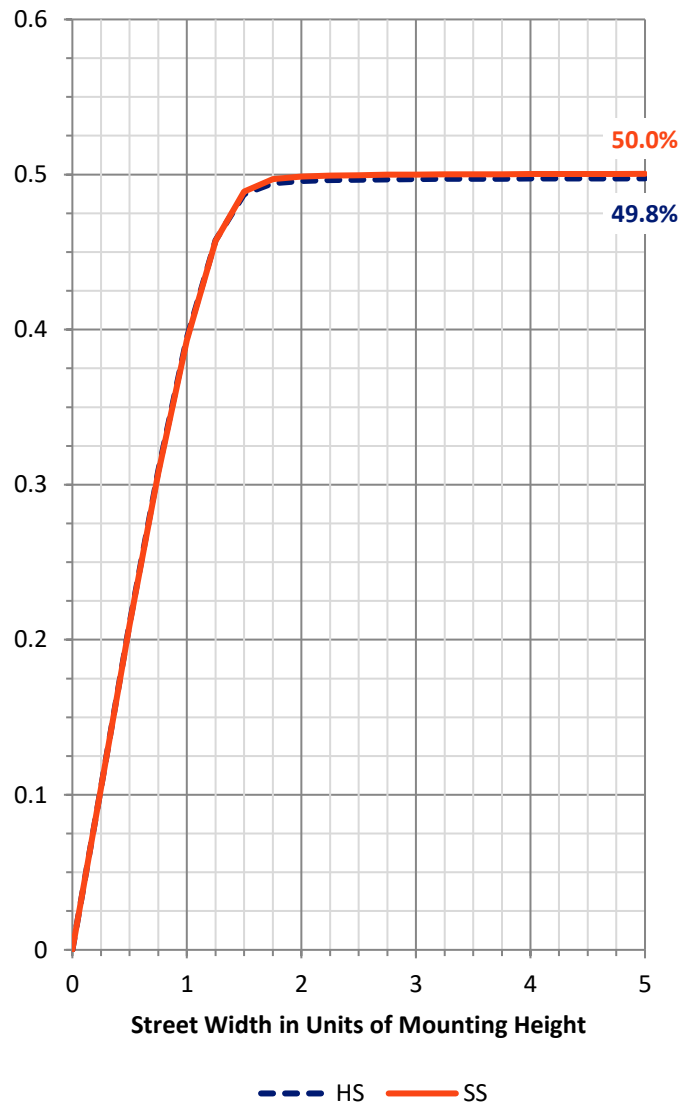
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18411.2	0.0	18411.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18411.2	0.0	18411.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	36822.4	0.0	36822.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	590.9	1.6
10°-20°	1913.7	5.2
20°-30°	3750.8	10.2
30°-40°	6744.7	18.3
40°-50°	11545.6	31.4
50°-60°	11171.5	30.3
60°-70°	956.3	2.6
70°-80°	113.3	0.3
80°-90°	35.5	0.1
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°	36822.4	100.0
0°-180°	36822.4	100.0

Coefficient of Utilization



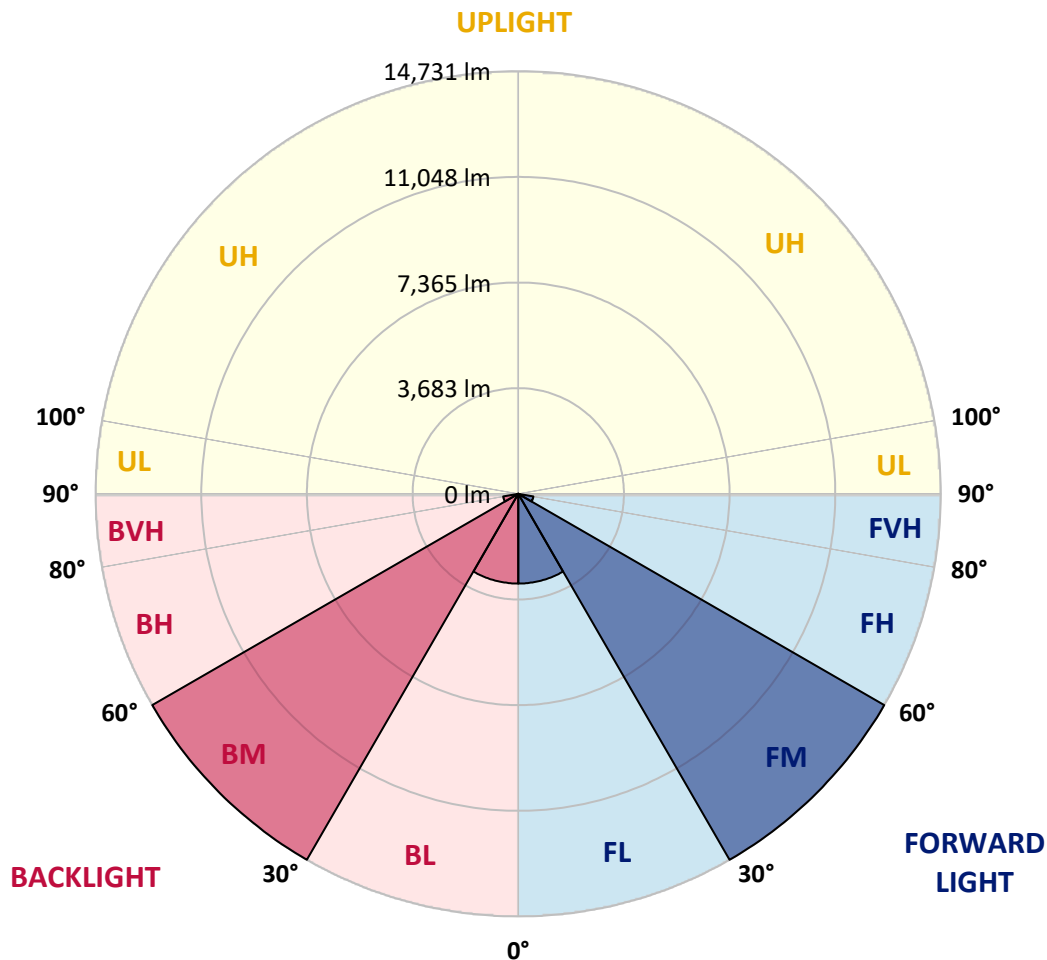
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3127.7	8.5			
FM (30°-60°)	14730.9	40.0			
FH (60°-80°)	534.8	1.5			G0/660
FVH (80°-90°)	17.8	0.0			G1/100
BL (0°-30°)	3127.7	8.5	B4/5000		
BM (30°-60°)	14730.9	40.0	B5		
BH (60°-80°)	534.8	1.5	B2/1000		G0/660
BVH (80°-90°)	17.8	0.0			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°	6037.7	6037.7	6037.7	6037.7	6037.7	6037.7	6037.7	6037.7	6037.7	6037.7	6037.7
2.5°	6066.9	6101.9	6078.6	6096.1	6096.1	6066.9	6084.4	6014.4	6061.1	6026.0	6031.9
5°	6160.2	6154.4	6154.4	6160.2	6136.9	6148.6	6125.3	6101.9	6084.4	6061.1	6131.1
7.5°	6276.9	6276.9	6236.1	6247.7	6236.1	6253.6	6206.9	6160.2	6142.7	6125.3	6113.6
10°	6387.7	6376.0	6358.5	6411.0	6370.2	6346.9	6323.6	6294.4	6230.2	6206.9	6183.5
12.5°	6551.1	6545.3	6521.9	6574.4	6551.1	6574.4	6486.9	6411.0	6399.4	6323.6	6364.4
15°	6743.6	6796.0	6755.2	6755.2	6743.6	6714.4	6679.4	6644.4	6539.4	6510.3	6516.1
17.5°	6994.4	6976.9	6982.7	6982.7	7041.1	6965.2	6895.3	6807.7	6755.2	6737.8	6679.4
20°	7233.6	7256.9	7251.1	7291.9	7327.0	7245.3	7169.4	7157.8	7011.9	7035.2	6953.6
22.5°	7653.6	7636.1	7665.3	7694.5	7671.1	7659.4	7589.4	7502.0	7373.6	7315.3	7303.6
25°	8097.0	8067.8	8015.3	8085.3	8120.3	8172.8	8038.6	7991.9	7793.6	7706.1	7712.0
27.5°	8476.1	8517.0	8575.3	8604.4	8692.0	8674.5	8581.1	8429.5	8277.8	8178.6	8114.5
30°	8995.3	9018.6	9117.9	9158.7	9310.4	9351.2	9205.3	9030.3	8762.0	8633.6	8557.8
32.5°	9473.7	9637.0	9631.2	9835.3	10080.4	10249.5	9987.0	9718.7	9450.3	9298.7	9164.5
35°	10249.5	10220.3	10389.5	10605.3	11002.0	11194.6	10908.7	10599.5	10191.2	9946.2	9841.2
37.5°	10972.9	10984.6	11212.0	11556.3	12011.2	12308.8	12057.9	11550.4	11130.4	10815.4	10669.5
40°	12022.9	12046.2	12279.6	12670.4	13183.8	13504.7	13213.0	12699.6	12139.6	11894.6	11894.6
42.5°	13253.8	13353.0	13504.7	13843.0	14303.8	14659.7	14397.2	13994.7	13428.8	13113.8	13160.5
45°	14519.7	14566.4	14665.5	15167.2	15383.1	15558.1	15313.0	15126.4	14747.2	14362.2	14298.0
47.5°	15703.9	15721.4	16013.1	16170.6	16339.8	16193.9	16351.4	16106.4	15680.5	15307.2	15231.4
50°	16228.9	16199.8	16614.0	17092.3	17220.7	16964.0	16829.8	16666.4	16018.9	15569.7	15371.4
52.5°	14700.5	14869.7	15639.7	16969.8	17973.2	18189.0	17407.3	16654.7	15447.2	14572.2	14438.0
54°	12950.5	13108.0	13743.8	15715.6	17804.0	18533.2	17273.1	15674.7	13971.4	12933.0	12798.8
55°	11217.9	11042.9	12197.9	14210.5	17010.6	18229.9	16742.3	14408.9	12460.4	11509.6	11322.9
57.5°	6072.7	6101.9	7076.1	8977.8	11953.0	13977.2	12343.8	9747.9	7361.9	6294.4	6201.0
60°	1925.0	1971.7	2397.6	3628.5	5711.1	6819.4	5845.2	3914.3	2706.8	2170.1	2082.6
62.5°	600.9	624.2	682.6	1015.0	1563.4	2234.3	1750.0	1050.1	781.7	717.5	729.2
65°	367.5	367.5	373.3	396.7	466.7	542.5	525.0	460.9	443.4	431.7	425.9
67.5°	239.2	233.4	245.0	262.5	274.2	280.0	297.5	315.0	309.2	297.5	297.5
70°	145.8	140.0	151.6	175.0	180.8	192.5	210.0	233.4	227.5	215.8	221.7
72.5°	81.7	81.7	87.5	105.0	122.5	134.1	151.6	169.2	175.0	169.2	169.2
75°	29.2	35.0	46.7	64.2	75.9	93.4	110.8	128.3	145.8	134.1	128.3
77.5°	11.7	11.7	23.3	40.9	58.4	75.9	105.0	122.5	134.1	122.5	110.8
80°	5.8	5.8	17.5	35.0	52.5	70.0	87.5	105.0	110.8	99.2	87.5
82.5°	5.8	5.8	17.5	35.0	52.5	64.2	93.4	105.0	116.6	105.0	87.5
85°	0.0	5.8	17.5	35.0	46.7	52.5	52.5	35.0	29.2	17.5	17.5
87.5°	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)