

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: P533995

Luminaire Tested: **GALN-SA9C-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533995
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-727-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 36617 lumens
Efficiency: N/A
Efficacy: 76.1 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

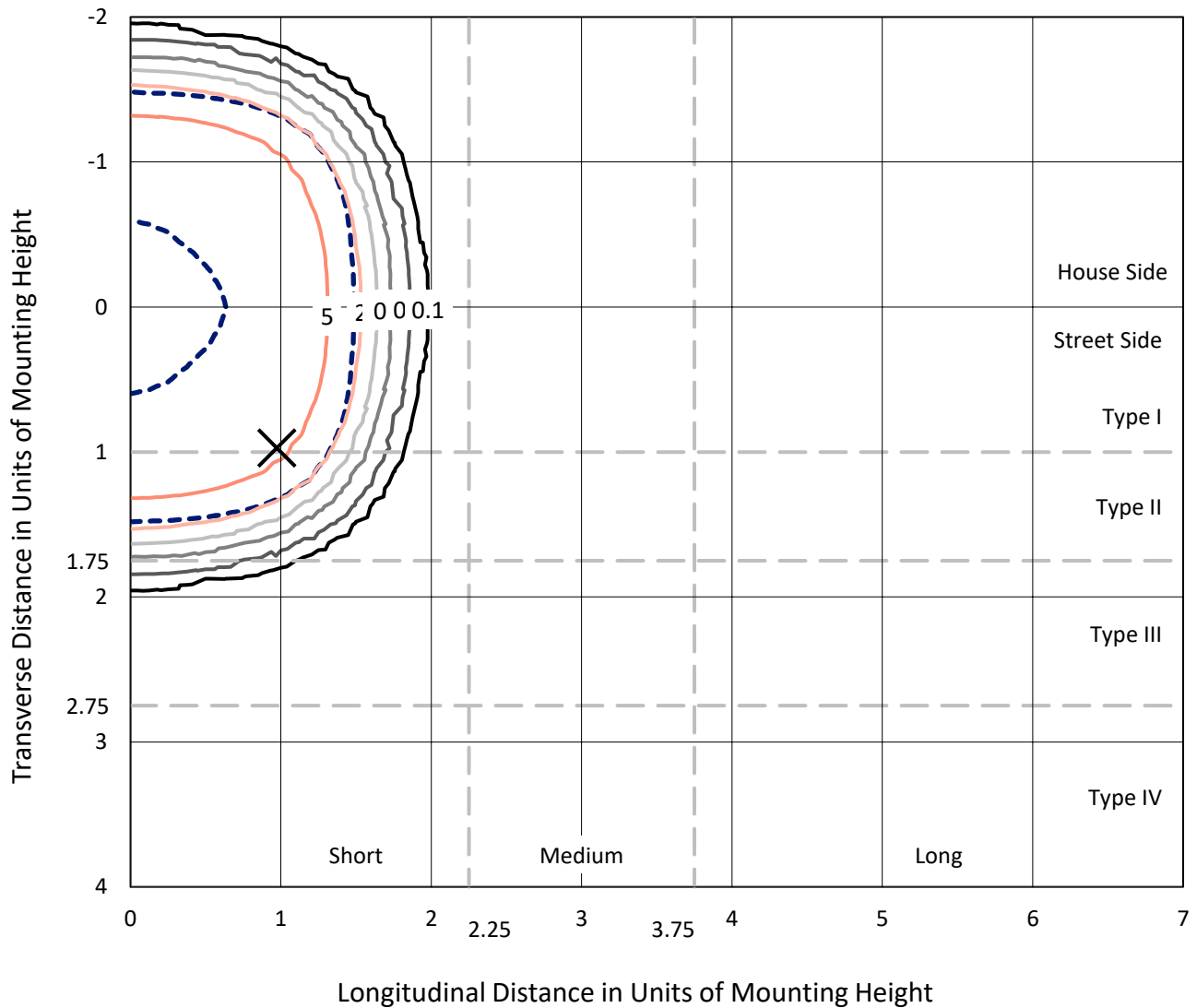
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

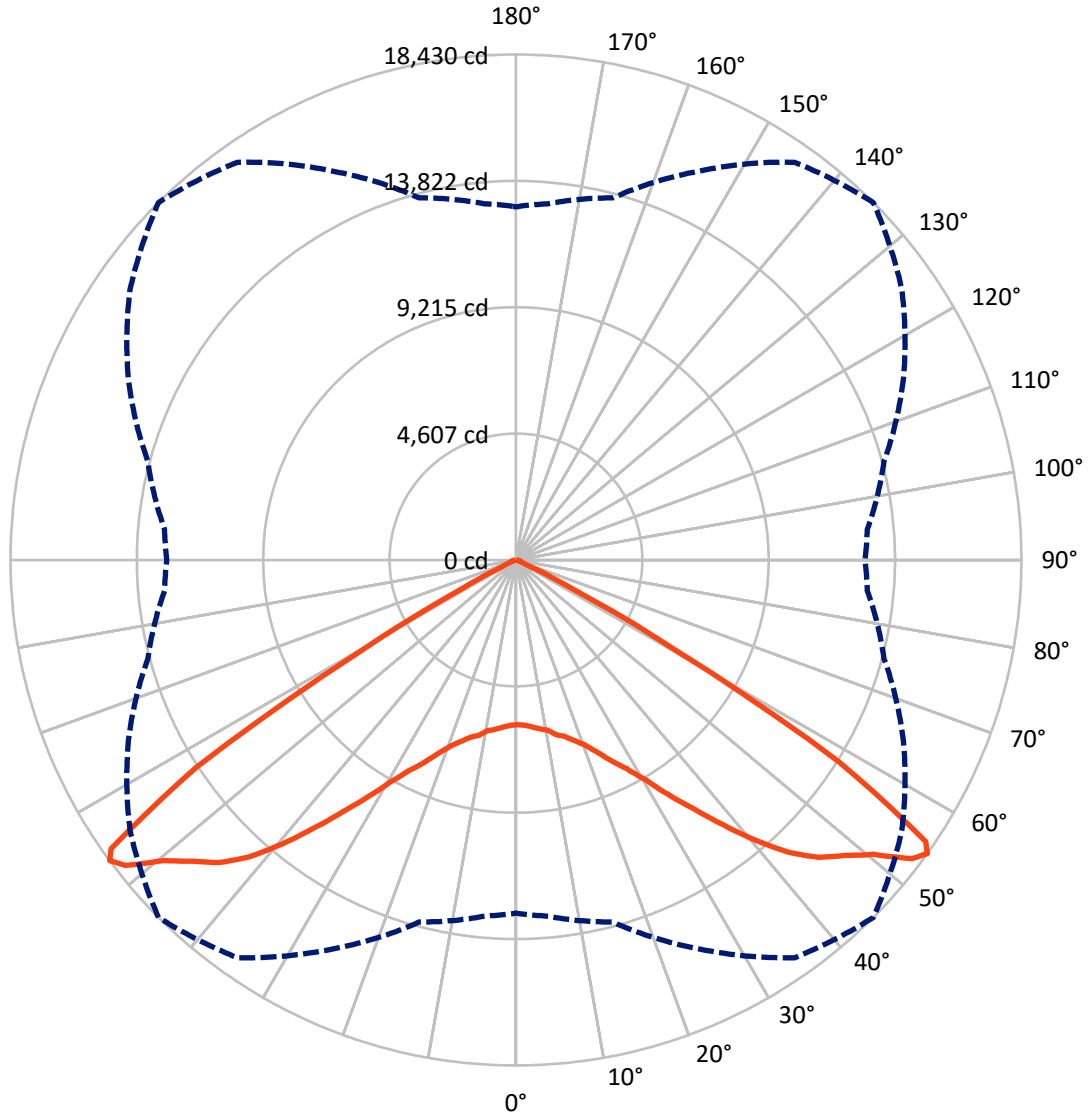
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	18308.5	0.0	18308.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18308.5	0.0	18308.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36617.0	0.0	36617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.7	1.6
10°-20°	1903.0	5.2
20°-30°	3729.9	10.2
30°-40°	6707.1	18.3
40°-50°	11481.2	31.4
50°-60°	11109.1	30.3
60°-70°	951.0	2.6
70°-80°	112.7	0.3
80°-90°	35.3	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°	36617.0	100.0
0°-180°	36617.0	100.0

Coefficient of Utilization



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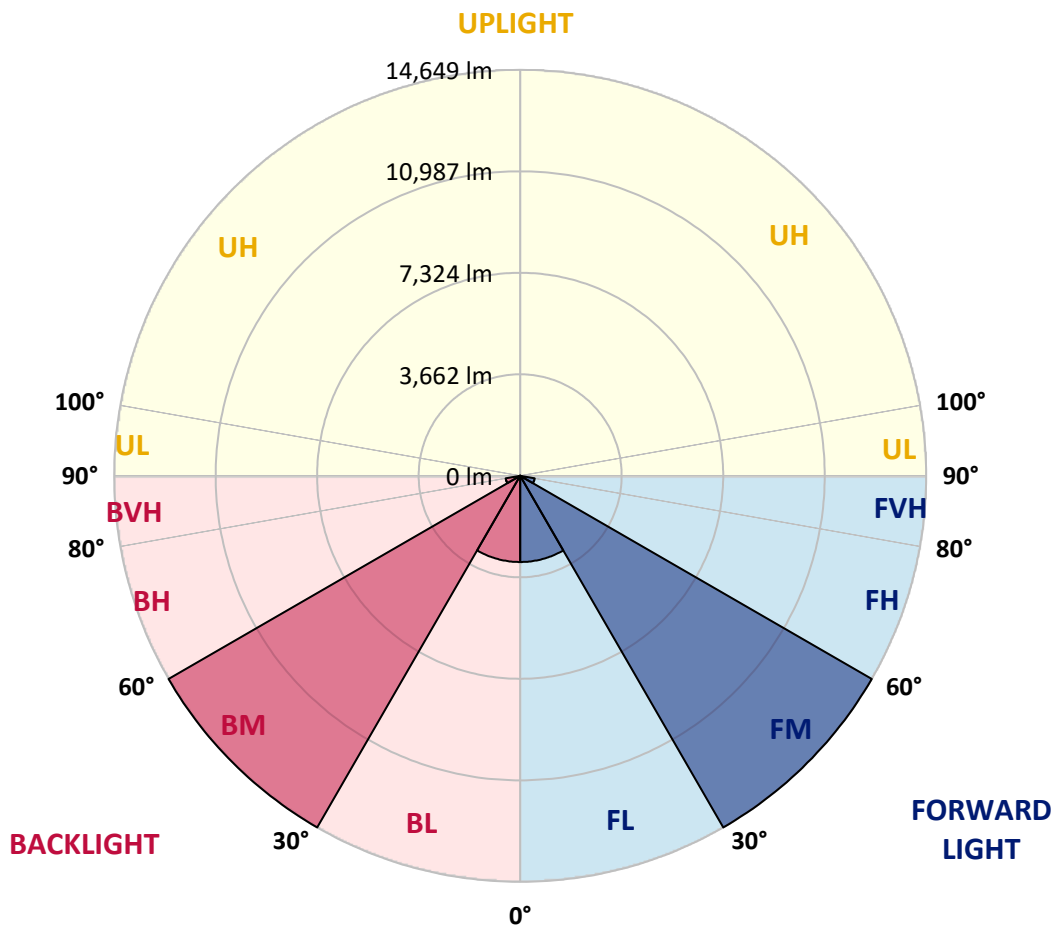
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3110.3	8.5			
FM (30°-60°)	14648.7	40.0			
FH (60°-80°)	531.8	1.5			G0/660
FVH (80°-90°)	17.7	0.0			G1/100
BL (0°-30°)	3110.3	8.5	B4/5000		
BM (30°-60°)	14648.7	40.0	B5		
BH (60°-80°)	531.8	1.5	B2/1000		G0/660
BVH (80°-90°)	17.7	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°	6004.0	6004.0	6004.0	6004.0	6004.0	6004.0	6004.0	6004.0	6004.0	6004.0	6004.0
2.5°	6033.1	6067.9	6044.7	6062.1	6062.1	6033.1	6050.5	5980.8	6027.3	5992.4	5998.2
5°	6125.9	6120.1	6120.1	6125.9	6102.7	6114.3	6091.1	6067.9	6050.5	6027.3	6096.9
7.5°	6241.9	6241.9	6201.3	6212.9	6201.3	6218.7	6172.3	6125.9	6108.5	6091.1	6079.5
10°	6352.1	6340.5	6323.1	6375.3	6334.7	6311.5	6288.3	6259.3	6195.5	6172.3	6149.1
12.5°	6514.5	6508.7	6485.5	6537.7	6514.5	6537.7	6450.7	6375.3	6363.7	6288.3	6328.9
15°	6706.0	6758.2	6717.6	6717.6	6706.0	6677.0	6642.2	6607.4	6502.9	6473.9	6479.7
17.5°	6955.4	6938.0	6943.8	6943.8	7001.8	6926.4	6856.8	6769.8	6717.6	6700.2	6642.2
20°	7193.3	7216.5	7210.7	7251.3	7286.1	7204.9	7129.4	7117.8	6972.8	6996.0	6914.8
22.5°	7610.9	7593.5	7622.5	7651.5	7628.3	7616.7	7547.1	7460.1	7332.5	7274.5	7262.9
25°	8051.8	8022.8	7970.6	8040.2	8075.0	8127.2	7993.8	7947.4	7750.2	7663.1	7668.9
27.5°	8428.9	8469.5	8527.5	8556.5	8643.5	8626.1	8533.3	8382.5	8231.6	8133.0	8069.2
30°	8945.2	8968.4	9067.0	9107.6	9258.4	9299.0	9154.0	8980.0	8713.1	8585.5	8510.1
32.5°	9420.8	9583.3	9577.5	9780.5	10024.1	10192.4	9931.3	9664.5	9397.6	9246.8	9113.4
35°	10192.4	10163.4	10331.6	10546.2	10940.7	11132.1	10847.9	10540.4	10134.4	9890.7	9786.3
37.5°	10911.7	10923.3	11149.5	11491.8	11944.3	12240.1	11990.7	11486.0	11068.3	10755.1	10610.1
40°	11955.9	11979.1	12211.1	12599.8	13110.3	13429.3	13139.3	12628.8	12071.9	11828.3	11828.3
42.5°	13179.9	13278.5	13429.3	13765.8	14224.1	14577.9	14316.9	13916.6	13353.9	13040.7	13087.1
45°	14438.7	14485.1	14583.7	15082.6	15297.3	15471.3	15227.7	15042.0	14665.0	14282.1	14218.3
47.5°	15616.3	15633.7	15923.8	16080.4	16248.6	16103.6	16260.2	16016.6	15593.1	15221.9	15146.4
50°	16138.4	16109.4	16521.3	16997.0	17124.6	16869.3	16735.9	16573.5	15929.6	15482.9	15285.7
52.5°	14618.5	14786.8	15552.5	16875.1	17872.9	18087.6	17310.2	16561.9	15361.1	14490.9	14357.5
54°	12878.2	13034.9	13667.2	15627.9	17704.7	18429.8	17176.8	15587.3	13893.4	12860.8	12727.4
55°	11155.3	10981.3	12129.9	14131.3	16915.8	18128.2	16648.9	14328.5	12391.0	11445.4	11259.8
57.5°	6038.9	6067.9	7036.6	8927.8	11886.3	13899.2	12274.9	9693.5	7320.9	6259.3	6166.5
60°	1914.3	1960.7	2384.2	3608.2	5679.2	6781.4	5812.6	3892.5	2691.7	2158.0	2071.0
62.5°	597.5	620.7	678.7	1009.4	1554.7	2221.8	1740.3	1044.2	777.3	713.5	725.1
65°	365.5	365.5	371.3	394.5	464.1	539.5	522.1	458.3	440.9	429.3	423.5
67.5°	237.8	232.0	243.6	261.0	272.6	278.4	295.9	313.3	307.5	295.9	295.9
70°	145.0	139.2	150.8	174.0	179.8	191.4	208.8	232.0	226.2	214.6	220.4
72.5°	81.2	81.2	87.0	104.4	121.8	133.4	150.8	168.2	174.0	168.2	168.2
75°	29.0	34.8	46.4	63.8	75.4	92.8	110.2	127.6	145.0	133.4	127.6
77.5°	11.6	11.6	23.2	40.6	58.0	75.4	104.4	121.8	133.4	121.8	110.2
80°	5.8	5.8	17.4	34.8	52.2	69.6	87.0	104.4	110.2	98.6	87.0
82.5°	5.8	5.8	17.4	34.8	52.2	63.8	92.8	104.4	116.0	104.4	87.0
85°	0.0	5.8	17.4	34.8	46.4	52.2	52.2	34.8	29.0	17.4	17.4
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)