

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: P529448

Luminaire Tested: **GALN-SA4C-760-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-760-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23595 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

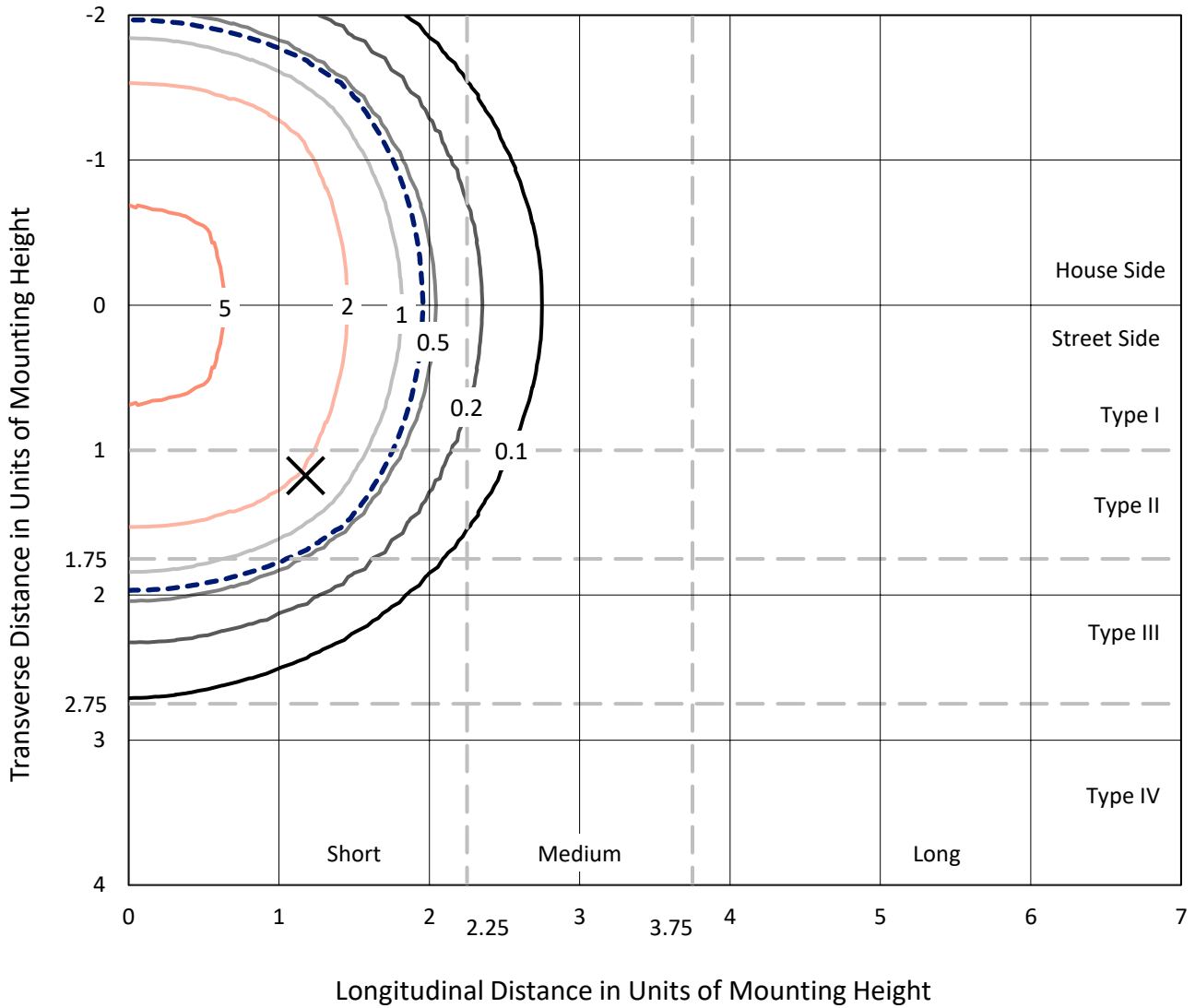
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

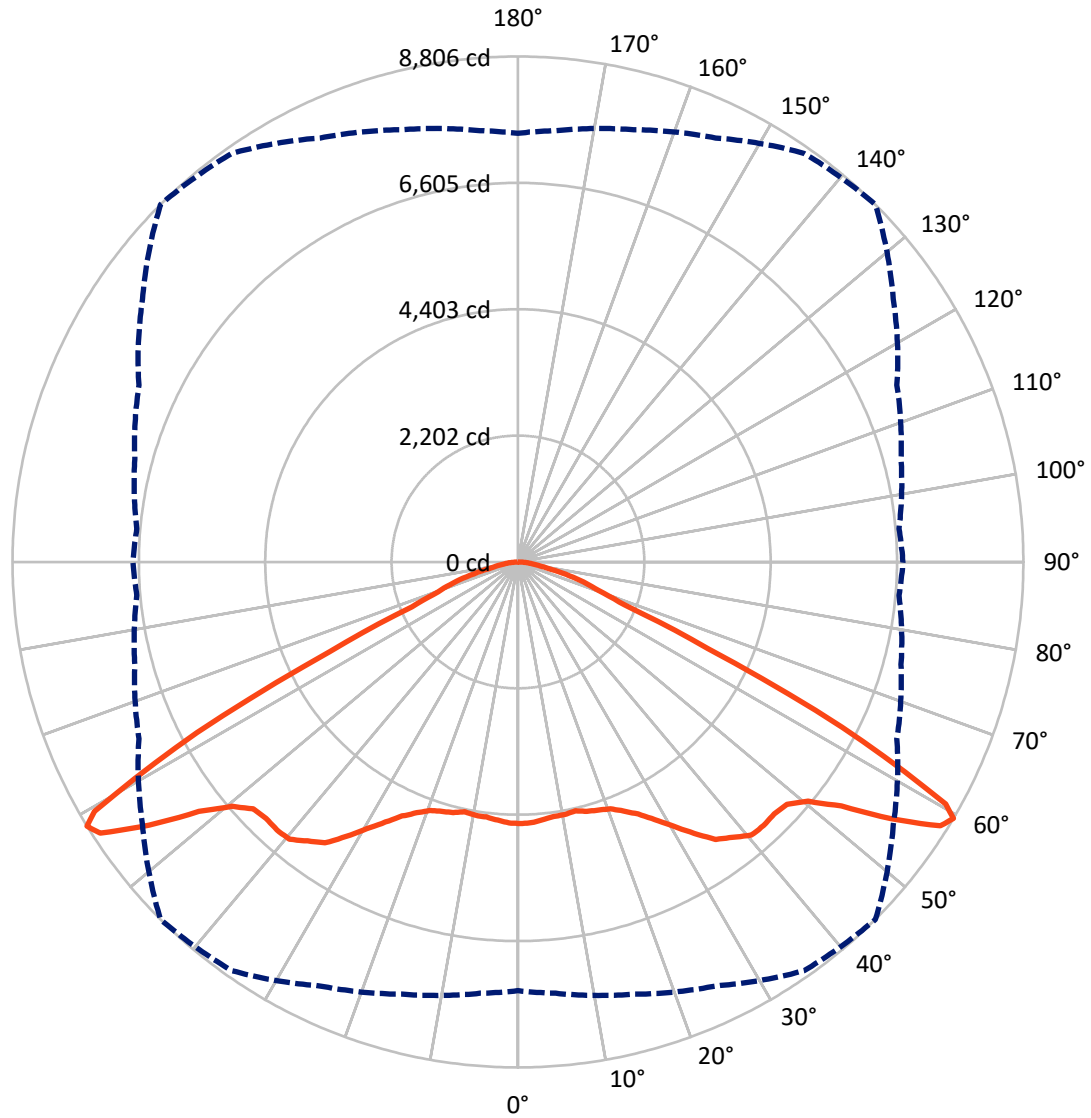
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11797.5	0.0	11797.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11797.5	0.0	11797.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23595.0	0.0	23595.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.6	1.8
10°-20°	1277.6	5.4
20°-30°	2230.9	9.5
30°-40°	3563.0	15.1
40°-50°	4853.5	20.6
50°-60°	6563.2	27.8
60°-70°	3599.3	15.3
70°-80°	920.8	3.9
80°-90°	157.0	0.7
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°	23595.0	100.0
0°-180°	23595.0	100.0

Coefficient of Utilization



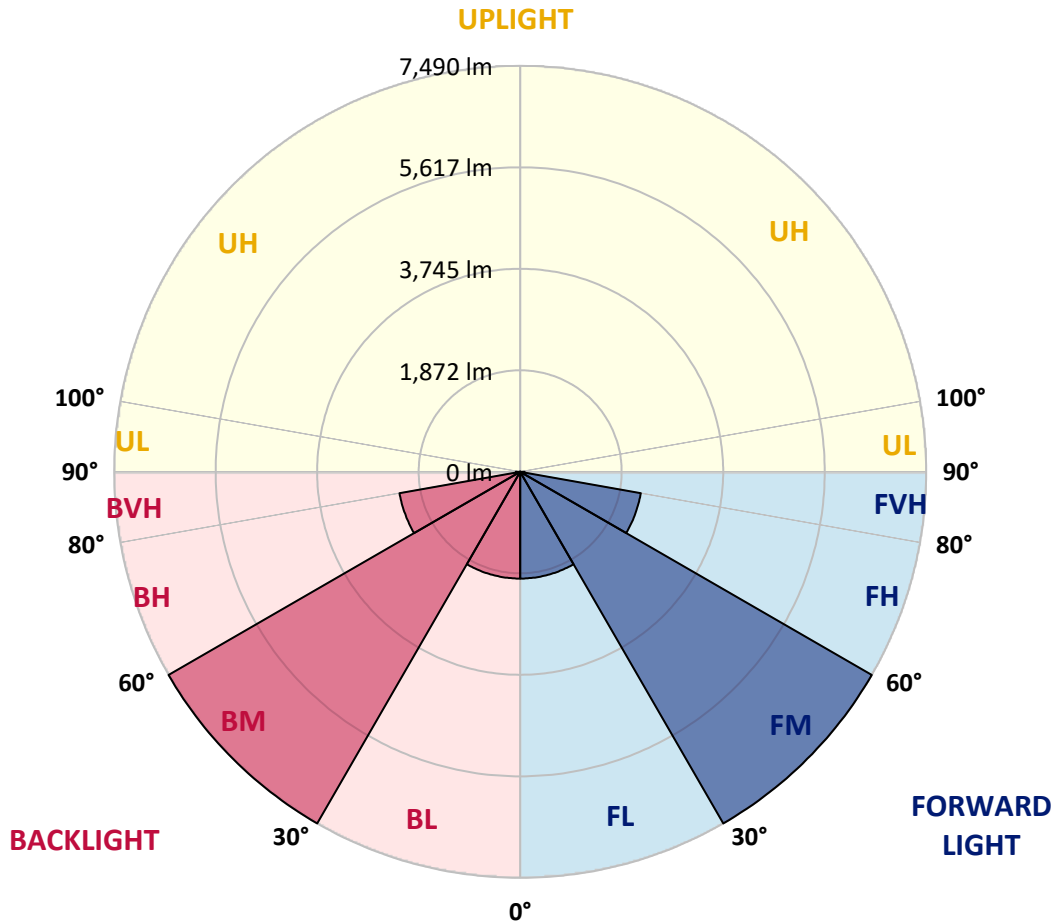
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1969.0	8.3			
FM (30°-60°)	7489.9	31.7			
FH (60°-80°)	2260.1	9.6			G2/5000
FVH (80°-90°)	78.5	0.3			G1/100
BL (0°-30°)	1969.0	8.3	B3/2500		
BM (30°-60°)	7489.9	31.7	B4/8500		
BH (60°-80°)	2260.1	9.6	B3/2500		G2/5000
BVH (80°-90°)	78.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4557.4	4557.4	4557.4	4557.4	4557.4	4557.4	4557.4	4557.4	4557.4	4557.4	4557.4
2.5°	4530.2	4563.5	4539.3	4560.4	4557.4	4548.4	4533.2	4524.2	4512.1	4530.2	4500.0
5°	4512.1	4539.3	4566.5	4530.2	4530.2	4512.1	4503.0	4484.8	4484.8	4481.8	4478.8
7.5°	4542.3	4515.1	4503.0	4509.0	4515.1	4475.8	4503.0	4466.7	4436.5	4457.6	4481.8
10°	4515.1	4527.2	4481.8	4503.0	4469.7	4475.8	4457.6	4481.8	4448.6	4448.6	4448.6
12.5°	4542.3	4509.0	4524.2	4509.0	4500.0	4448.6	4472.7	4445.5	4442.5	4472.7	4445.5
15°	4596.7	4542.3	4530.2	4500.0	4509.0	4509.0	4484.8	4487.9	4454.6	4472.7	4478.8
17.5°	4578.6	4548.4	4539.3	4503.0	4533.2	4542.3	4496.9	4466.7	4487.9	4484.8	4481.8
20°	4593.7	4605.8	4596.7	4602.8	4614.9	4590.7	4548.4	4506.0	4478.8	4518.1	4515.1
22.5°	4690.5	4678.4	4672.3	4666.3	4687.5	4711.7	4654.2	4587.7	4587.7	4614.9	4627.0
25°	4769.1	4766.1	4763.1	4790.3	4862.9	4862.9	4790.3	4705.6	4684.4	4702.6	4687.5
27.5°	4884.0	4917.3	4905.2	4953.6	5059.4	5083.6	4986.9	4887.1	4829.6	4808.4	4835.6
30°	5147.1	5107.8	5116.9	5168.3	5262.1	5340.7	5192.5	5086.7	5008.0	5005.0	5017.1
32.5°	5322.5	5352.8	5380.0	5428.4	5576.6	5637.1	5458.6	5286.3	5237.9	5210.6	5219.7
35°	5673.3	5646.1	5640.1	5688.5	5836.6	5936.4	5712.7	5561.5	5497.9	5558.4	5558.4
37.5°	6006.0	5930.4	5872.9	5936.4	6072.5	6084.6	5894.1	5812.5	5779.2	5848.7	5845.7
40°	6163.3	6157.2	6024.1	6060.4	6241.9	6260.0	6081.6	5984.8	5978.8	6069.5	6160.2
42.5°	6326.6	6269.1	6136.0	6160.2	6272.1	6278.2	6108.8	6081.6	6148.1	6235.8	6241.9
45°	6353.8	6305.4	6220.7	6160.2	6241.9	6260.0	6160.2	6178.4	6184.4	6290.3	6290.3
47.5°	6408.2	6402.2	6353.8	6308.4	6323.5	6308.4	6244.9	6272.1	6362.9	6414.3	6390.1
50°	6559.4	6495.9	6544.3	6505.0	6508.0	6550.4	6492.9	6520.1	6502.0	6456.6	6426.4
52.5°	6892.1	6861.8	6904.2	6931.4	6961.6	7058.4	6991.9	6846.7	6710.6	6589.7	6586.6
55°	7379.0	7400.1	7481.8	7620.9	7738.9	7893.1	7572.5	7224.7	7007.0	6816.5	6828.6
57.5°	7838.7	7823.5	7935.4	8253.0	8597.7	8676.3	8047.3	7551.4	7197.5	7076.6	7025.1
59°	7469.7	7542.3	7796.3	8150.1	8691.5	8806.4	7983.8	7285.2	6910.2	6665.3	6707.6
60°	6889.1	6916.3	7143.1	7636.0	8367.9	8564.5	7557.4	6873.9	6375.0	6232.8	6296.3
62.5°	4868.9	4847.7	5011.1	5413.3	6069.5	6335.6	5618.9	5138.1	4823.6	4666.3	4702.6
65°	2588.7	2685.5	2752.0	3003.0	3350.8	3632.0	3335.7	3127.0	2951.6	2821.6	2818.5
67.5°	1748.0	1735.9	1751.0	1808.5	1926.4	2005.0	1999.0	1893.1	1878.0	1853.8	1881.0
70°	1472.8	1466.7	1439.5	1439.5	1463.7	1481.8	1503.0	1515.1	1539.3	1569.5	1566.5
72.5°	1194.5	1179.4	1161.3	1152.2	1182.5	1191.5	1218.7	1230.8	1252.0	1249.0	1276.2
75°	789.3	789.3	810.5	834.7	843.7	861.9	864.9	901.2	901.2	907.3	883.1
77.5°	441.5	429.4	444.6	468.7	489.9	523.2	556.4	583.7	598.8	592.7	592.7
80°	257.1	257.1	272.2	299.4	326.6	356.9	381.0	402.2	417.3	411.3	399.2
82.5°	160.3	160.3	175.4	202.6	223.8	241.9	275.2	302.4	320.6	314.5	299.4
85°	81.7	81.7	99.8	117.9	145.2	157.3	154.2	142.1	139.1	124.0	124.0
87.5°	21.2	21.2	30.2	33.3	27.2	30.2	30.2	30.2	30.2	30.2	33.3
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)