

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: P529576

Luminaire Tested: **GALN-SA4D-730-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25103 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

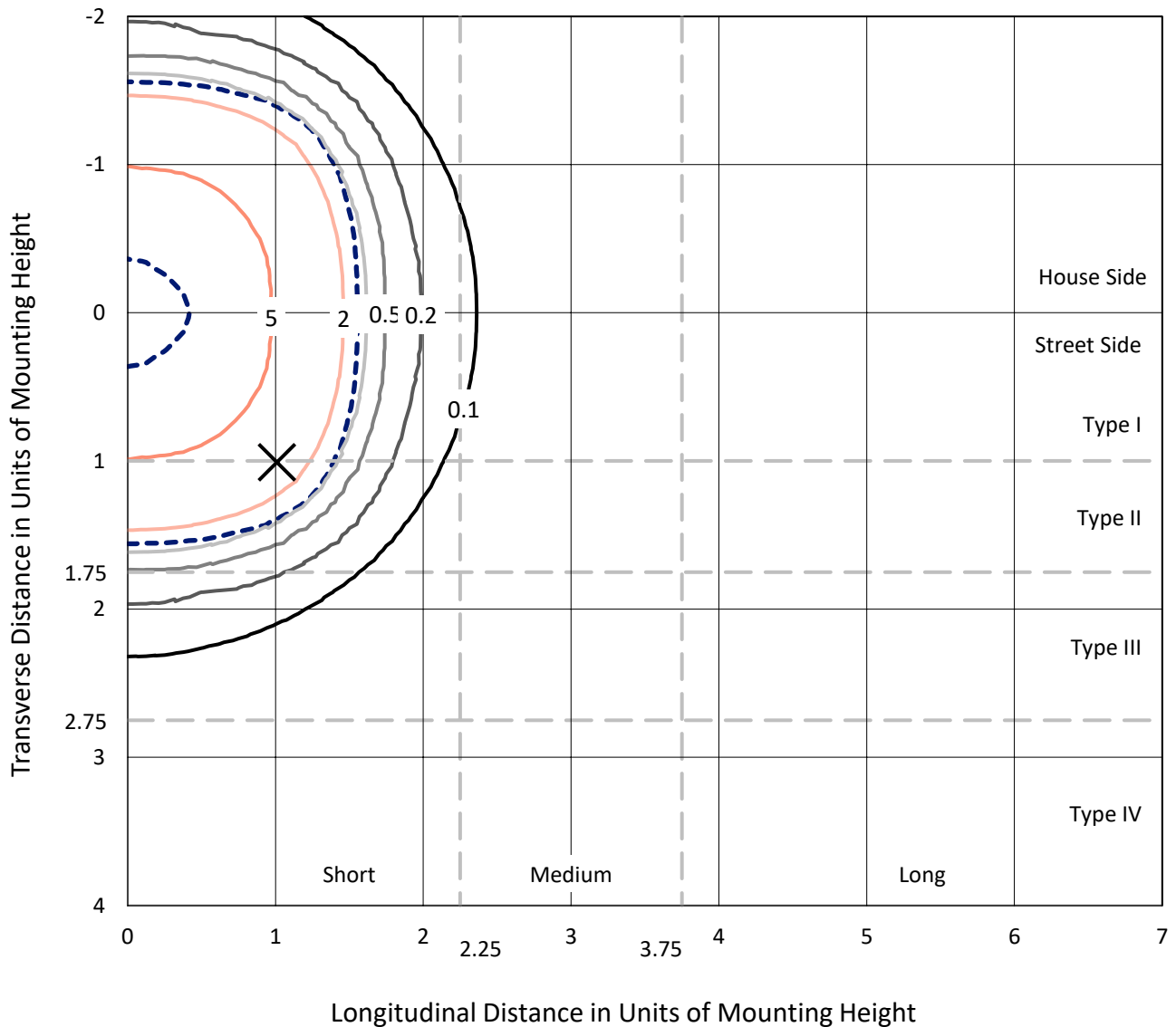
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

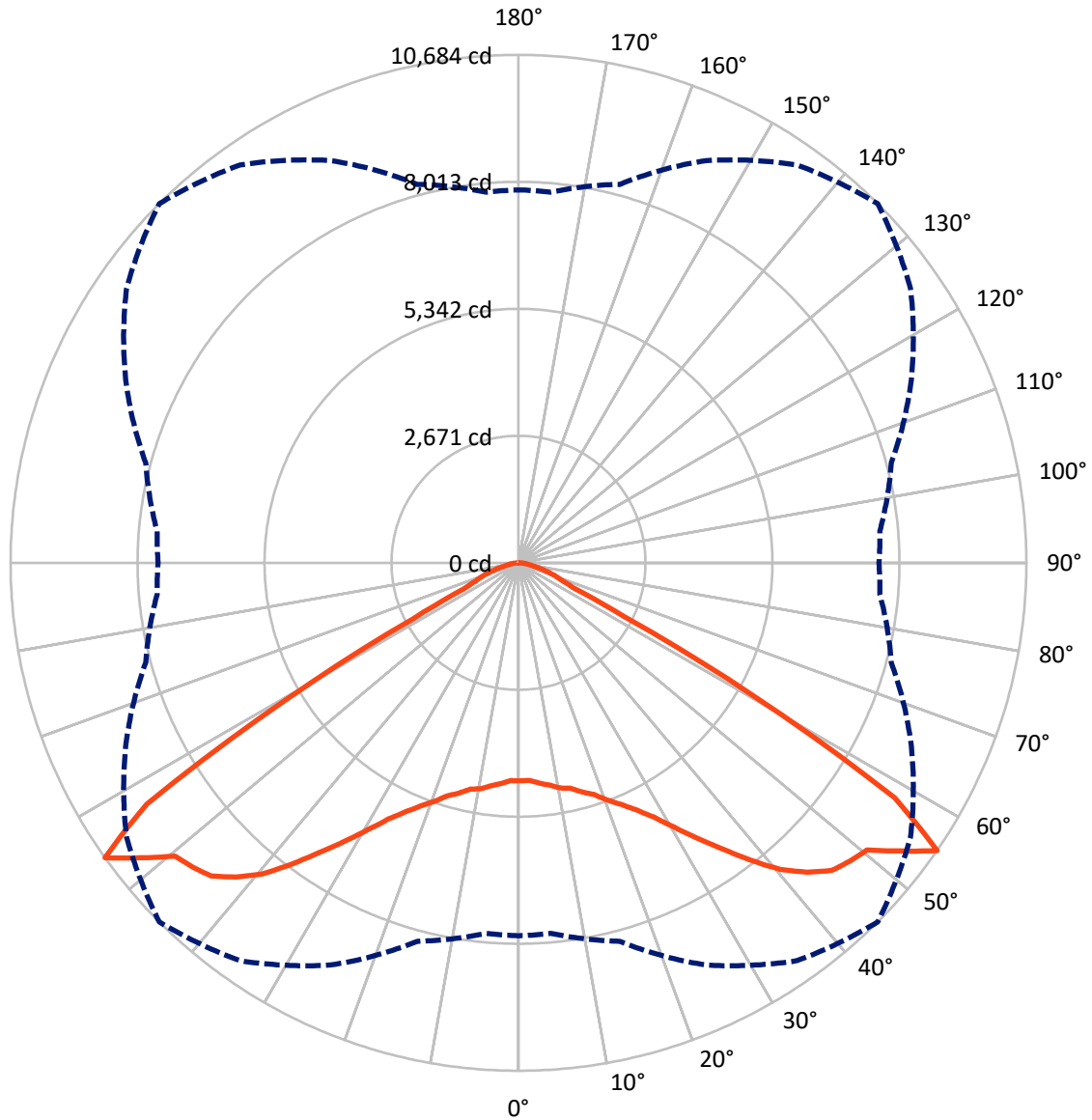
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12551.5	0.0	12551.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12551.5	0.0	12551.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25103.0	0.0	25103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.8	1.8
10°-20°	1418.7	5.7
20°-30°	2645.5	10.5
30°-40°	4429.4	17.6
40°-50°	6892.5	27.5
50°-60°	7156.5	28.5
60°-70°	1517.7	6.0
70°-80°	499.8	2.0
80°-90°	95.2	0.4
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°	25103.0	100.0
0°-180°	25103.0	100.0

Coefficient of Utilization



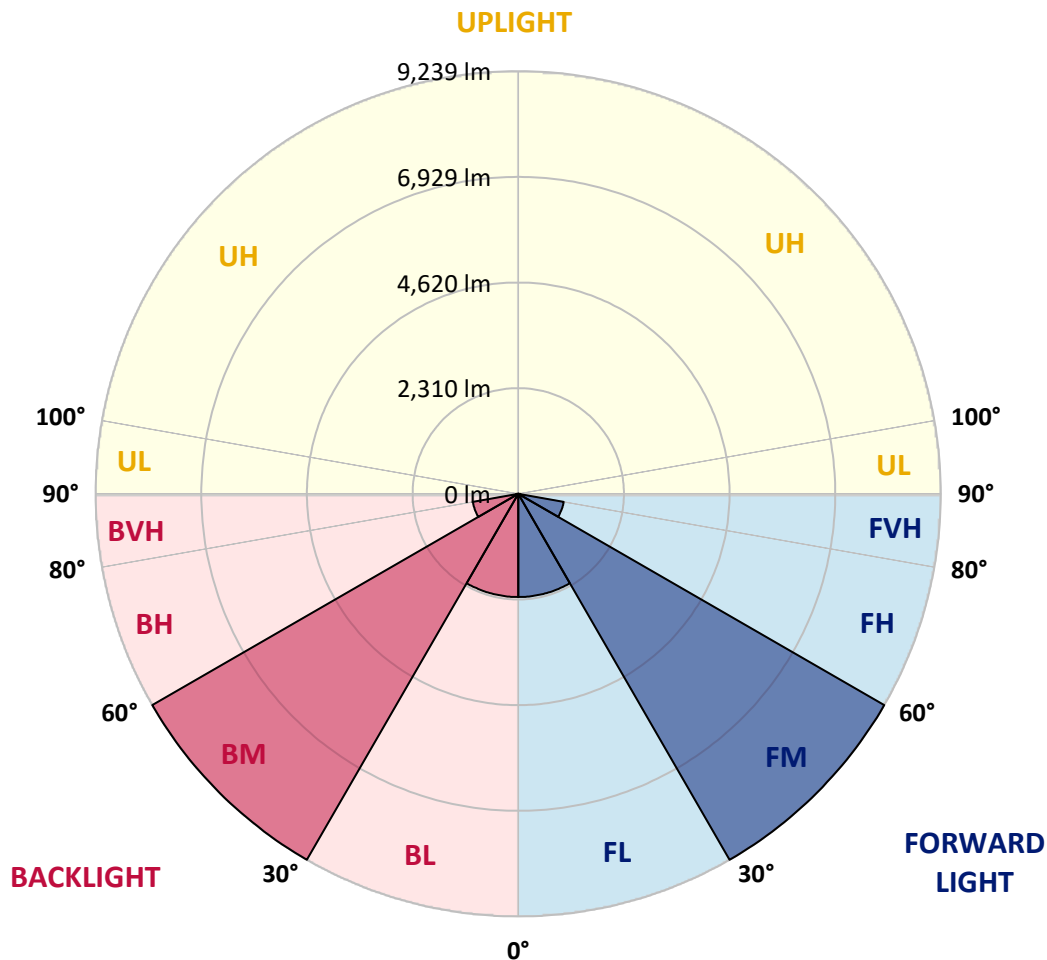
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2256.0	9.0			
FM (30°-60°)	9239.2	36.8			
FH (60°-80°)	1008.7	4.0			G1/1800
FVH (80°-90°)	47.6	0.2			G1/100
BL (0°-30°)	2256.0	9.0	B3/2500		
BM (30°-60°)	9239.2	36.8	B5		
BH (60°-80°)	1008.7	4.0	B3/2500		G1/1800
BVH (80°-90°)	47.6	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4583.4	4583.4	4583.4	4583.4	4583.4	4583.4	4583.4	4583.4	4583.4	4583.4	4583.4
2.5°	4638.0	4616.8	4580.4	4607.7	4628.9	4583.4	4601.6	4610.7	4604.7	4580.4	4589.5
5°	4704.8	4692.6	4662.3	4683.5	4656.2	4656.2	4638.0	4613.8	4650.2	4644.1	4659.3
7.5°	4704.8	4689.6	4750.3	4710.8	4723.0	4723.0	4692.6	4668.4	4686.6	4659.3	4644.1
10°	4798.8	4820.0	4792.7	4801.8	4795.8	4817.0	4771.5	4756.3	4741.2	4732.1	4713.9
12.5°	4911.0	4895.9	4905.0	4898.9	4920.1	4865.5	4838.2	4804.9	4832.2	4792.7	4820.0
15°	5002.0	4992.9	5002.0	5026.3	5005.1	5002.0	4953.5	4920.1	4877.7	4886.8	4844.3
17.5°	5126.4	5117.3	5120.3	5141.6	5138.5	5123.4	5087.0	5023.3	5008.1	4983.8	4956.5
20°	5311.4	5296.3	5290.2	5299.3	5314.5	5326.6	5253.8	5229.5	5178.0	5138.5	5093.0
22.5°	5469.2	5463.1	5487.4	5447.9	5481.3	5517.7	5447.9	5435.8	5308.4	5287.2	5238.6
25°	5687.6	5678.5	5663.3	5720.9	5760.4	5757.4	5690.6	5623.9	5526.8	5502.5	5502.5
27.5°	5918.1	5866.6	5945.4	5960.6	6030.4	6051.6	5994.0	5896.9	5805.9	5754.3	5766.5
30°	6206.3	6157.8	6176.0	6285.2	6376.2	6455.0	6309.4	6166.9	6039.5	5948.5	5933.3
32.5°	6494.5	6445.9	6500.5	6606.7	6788.7	6907.0	6764.4	6515.7	6367.1	6233.6	6260.9
35°	6728.0	6764.4	6852.4	7013.2	7201.2	7392.3	7164.8	6973.7	6761.4	6612.8	6634.0
37.5°	7104.2	7216.4	7286.2	7471.2	7738.1	7935.3	7698.7	7450.0	7222.5	7028.3	6961.6
40°	7595.6	7671.4	7750.3	7968.7	8284.2	8481.3	8256.9	7932.3	7707.8	7507.6	7498.5
42.5°	8135.5	8208.3	8290.2	8557.2	8745.2	8893.9	8687.6	8514.7	8266.0	8108.2	8099.1
45°	8763.4	8711.9	8802.9	8978.8	9136.5	9233.6	9100.1	9015.2	8836.2	8690.6	8675.5
47.5°	9182.0	9136.5	9300.3	9458.1	9482.3	9376.2	9403.5	9482.3	9294.3	9054.6	9130.5
50°	9424.7	9424.7	9533.9	9679.5	9634.0	9497.5	9712.9	9718.9	9530.9	9318.5	9318.5
52.5°	9003.1	9097.1	9406.5	9882.7	10034.4	10073.8	10025.3	9819.0	9327.6	8893.9	8872.6
55°	7844.3	7823.1	8241.7	9333.7	10216.4	10683.6	10064.7	9115.3	8117.3	7628.9	7580.4
57.5°	5102.1	5126.4	5751.3	6864.5	8457.1	9327.6	8284.2	6949.5	5751.3	5077.9	5141.6
60°	2296.3	2378.2	2757.3	3588.5	4956.5	5666.3	4968.7	3770.5	2893.8	2511.6	2545.0
62.5°	1319.5	1334.7	1349.9	1601.6	2111.2	2496.5	2193.1	1692.6	1492.4	1425.7	1425.7
65°	1113.2	1104.1	1107.2	1128.4	1183.0	1261.9	1228.5	1183.0	1189.1	1183.0	1173.9
67.5°	946.4	958.5	949.4	964.6	967.6	979.8	1001.0	1019.2	1022.2	1028.3	1022.2
70°	776.5	779.6	785.6	797.8	800.8	809.9	840.2	855.4	864.5	864.5	876.6
72.5°	594.5	591.5	597.6	609.7	624.9	627.9	655.2	676.4	688.6	673.4	676.4
75°	391.3	394.3	403.4	412.5	433.8	455.0	464.1	485.3	488.4	494.4	479.3
77.5°	233.6	239.6	248.7	266.9	285.1	303.3	324.6	339.7	345.8	339.7	321.5
80°	151.7	151.7	163.8	179.0	200.2	215.4	227.5	239.6	248.7	239.6	233.6
82.5°	94.0	94.0	109.2	127.4	142.6	151.7	169.9	185.0	194.1	188.1	179.0
85°	48.5	51.6	63.7	78.9	91.0	97.1	94.0	84.9	75.8	72.8	66.7
87.5°	15.2	15.2	18.2	18.2	15.2	15.2	18.2	15.2	18.2	18.2	18.2
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)