

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: P530563

Luminaire Tested: **GALN-SA5D-740-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530563
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-SA5D-740-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA 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: 26614 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

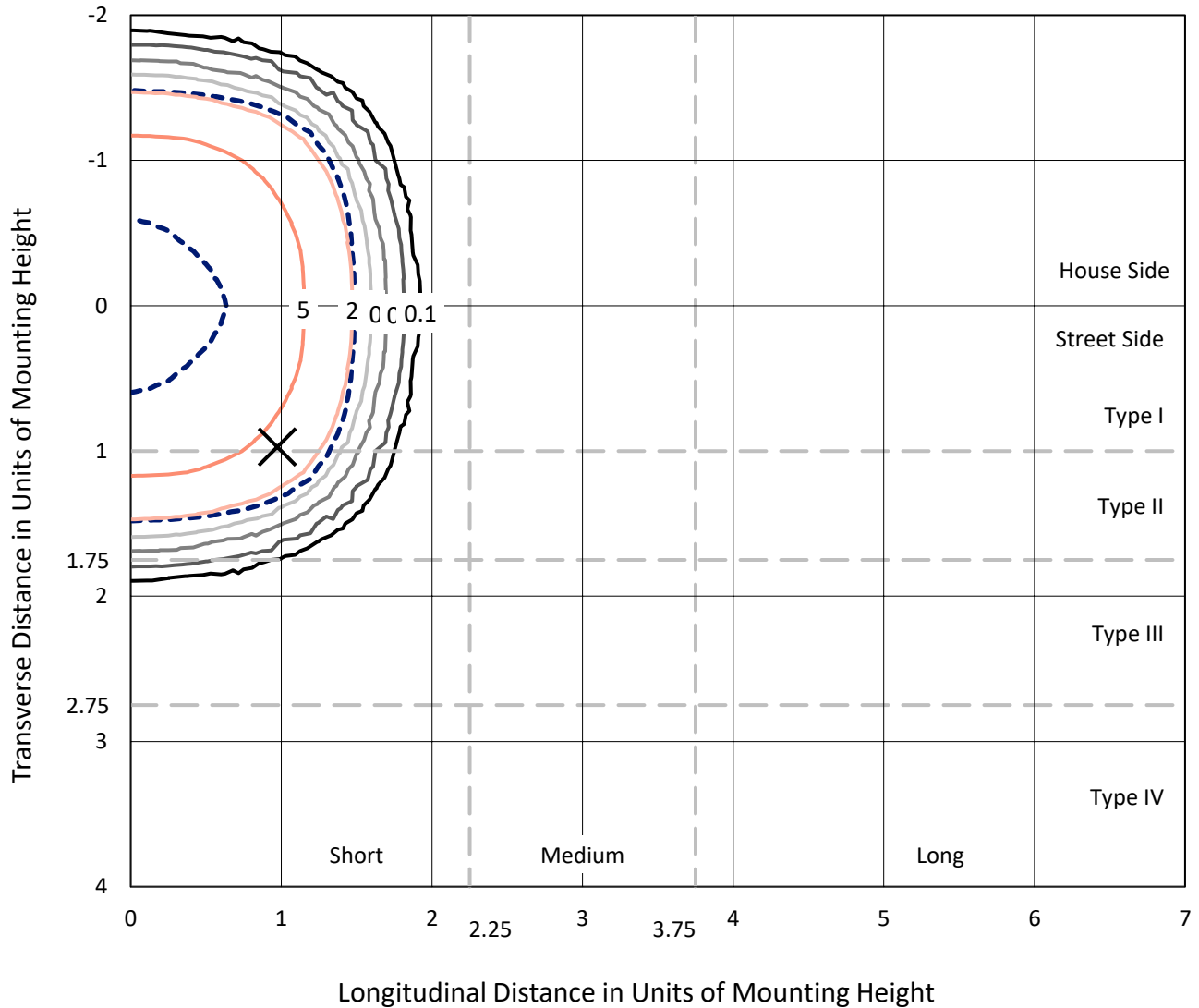
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

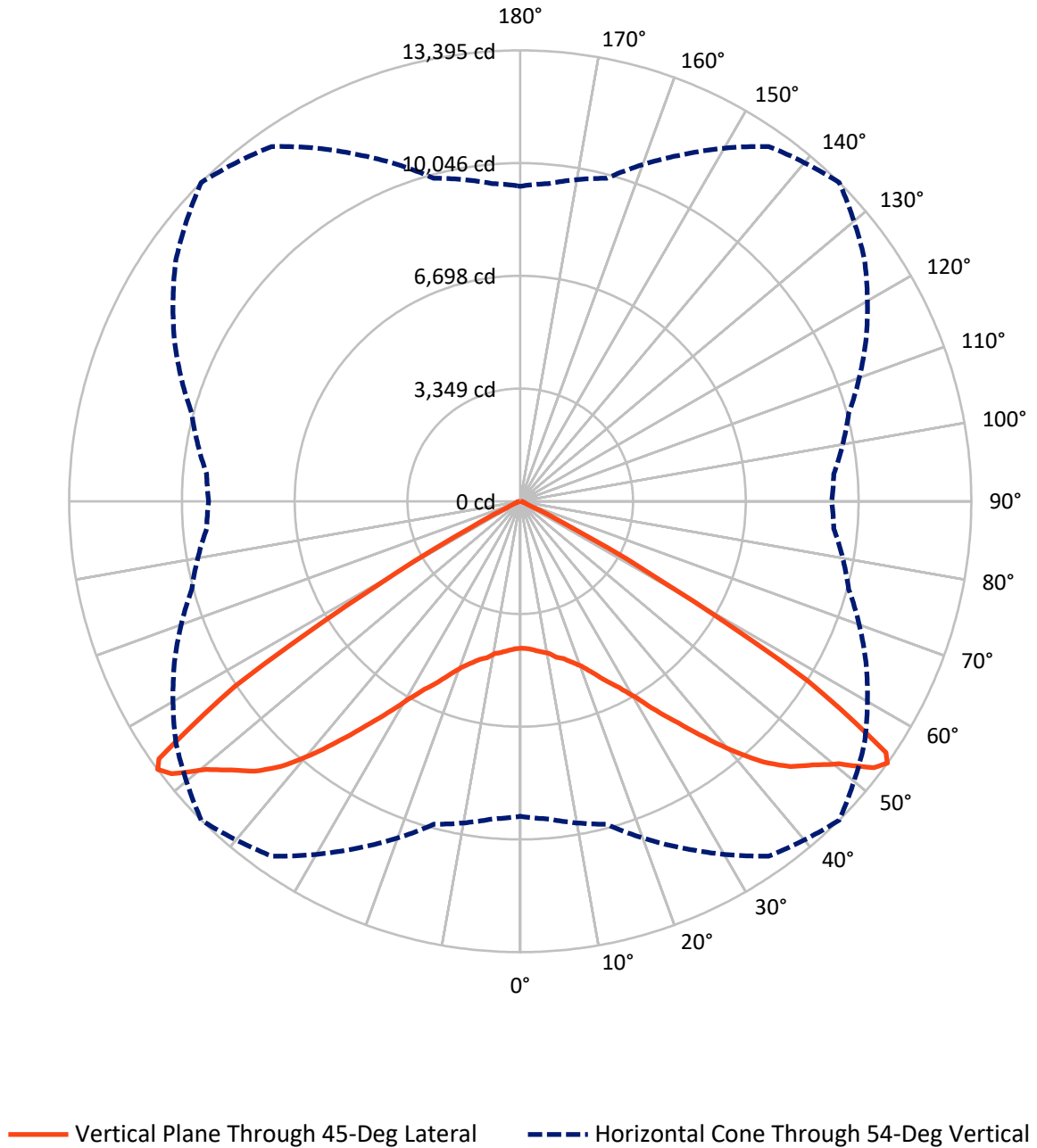
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13307.0	0.0	13307.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13307.0	0.0	13307.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26614.0	0.0	26614.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.1	1.6
10°-20°	1383.2	5.2
20°-30°	2710.9	10.2
30°-40°	4874.8	18.3
40°-50°	8344.8	31.4
50°-60°	8074.4	30.3
60°-70°	691.2	2.6
70°-80°	81.9	0.3
80°-90°	25.7	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°	26614.0	100.0
0°-180°	26614.0	100.0



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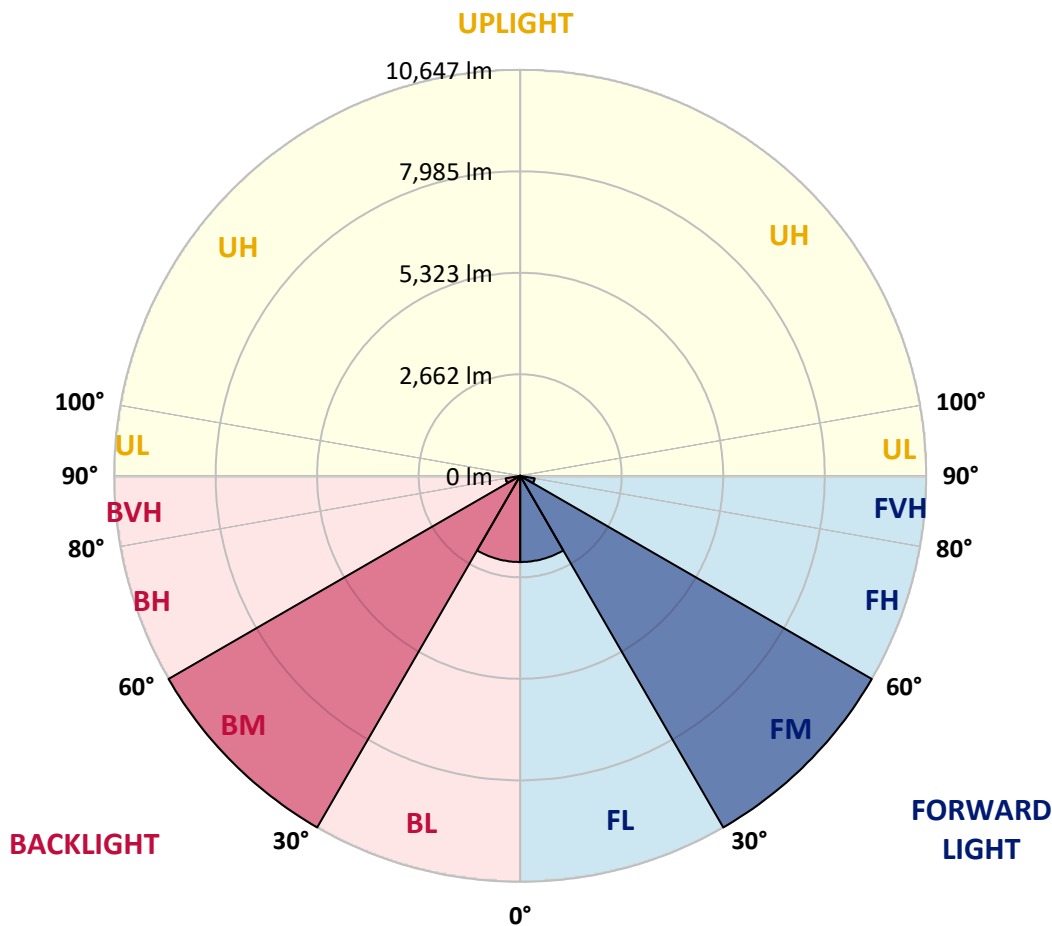
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2260.6	8.5			
FM (30°-60°)	10647.0	40.0			
FH (60°-80°)	386.6	1.5			G0/660
FVH (80°-90°)	12.8	0.0			G1/100
BL (0°-30°)	2260.6	8.5	B3/2500		
BM (30°-60°)	10647.0	40.0	B5		
BH (60°-80°)	386.6	1.5	B1/500		G0/660
BVH (80°-90°)	12.8	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°	4363.9	4363.9	4363.9	4363.9	4363.9	4363.9	4363.9	4363.9	4363.9	4363.9	4363.9
2.5°	4384.9	4410.2	4393.4	4406.0	4406.0	4384.9	4397.6	4347.0	4380.7	4355.4	4359.7
5°	4452.4	4448.2	4448.2	4452.4	4435.5	4444.0	4427.1	4410.2	4397.6	4380.7	4431.3
7.5°	4536.7	4536.7	4507.2	4515.7	4507.2	4519.9	4486.1	4452.4	4439.8	4427.1	4418.7
10°	4616.8	4608.4	4595.8	4633.7	4604.2	4587.3	4570.5	4549.4	4503.0	4486.1	4469.3
12.5°	4734.9	4730.7	4713.8	4751.8	4734.9	4751.8	4688.5	4633.7	4625.3	4570.5	4600.0
15°	4874.0	4912.0	4882.5	4882.5	4874.0	4853.0	4827.7	4802.4	4726.5	4705.4	4709.6
17.5°	5055.3	5042.7	5046.9	5046.9	5089.1	5034.3	4983.7	4920.4	4882.5	4869.8	4827.7
20°	5228.2	5245.1	5240.9	5270.4	5295.7	5236.6	5181.8	5173.4	5068.0	5084.9	5025.8
22.5°	5531.8	5519.1	5540.2	5561.3	5544.4	5536.0	5485.4	5422.2	5329.4	5287.2	5278.8
25°	5852.2	5831.1	5793.2	5843.8	5869.1	5907.0	5810.1	5776.3	5633.0	5569.7	5573.9
27.5°	6126.3	6155.8	6198.0	6219.0	6282.3	6269.6	6202.2	6092.5	5982.9	5911.2	5864.9
30°	6501.5	6518.4	6590.1	6619.6	6729.2	6758.7	6653.3	6526.8	6332.9	6240.1	6185.3
32.5°	6847.3	6965.3	6961.1	7108.7	7285.8	7408.0	7218.3	7024.3	6830.4	6720.8	6623.8
35°	7408.0	7387.0	7509.2	7665.2	7951.9	8091.1	7884.5	7661.0	7365.9	7188.8	7112.9
37.5°	7930.9	7939.3	8103.7	8352.5	8681.4	8896.4	8715.1	8348.3	8044.7	7817.0	7711.6
40°	8689.8	8706.7	8875.3	9157.8	9528.8	9760.7	9549.9	9178.9	8774.1	8597.0	8597.0
42.5°	9579.4	9651.1	9760.7	10005.3	10338.4	10595.6	10405.8	10114.9	9705.9	9478.2	9512.0
45°	10494.4	10528.1	10599.8	10962.4	11118.4	11244.9	11067.8	10932.9	10658.8	10380.5	10334.1
47.5°	11350.3	11362.9	11573.7	11687.6	11809.8	11704.4	11818.3	11641.2	11333.4	11063.6	11008.8
50°	11729.7	11708.7	12008.0	12353.7	12446.5	12261.0	12164.0	12046.0	11578.0	11253.3	11109.9
52.5°	10625.1	10747.3	11303.9	12265.2	12990.4	13146.4	12581.4	12037.5	11164.8	10532.3	10435.3
54°	9360.2	9474.0	9933.6	11358.7	12868.1	13395.2	12484.5	11329.2	10098.0	9347.5	9250.6
55°	8107.9	7981.4	8816.3	10270.9	12294.7	13175.9	12100.8	10414.3	9006.0	8318.8	8183.8
57.5°	4389.2	4410.2	5114.4	6488.9	8639.2	10102.2	8921.7	7045.4	5321.0	4549.4	4481.9
60°	1391.4	1425.1	1732.9	2622.5	4127.8	4928.9	4224.7	2829.1	1956.4	1568.5	1505.2
62.5°	434.3	451.1	493.3	733.6	1130.0	1614.8	1264.9	758.9	565.0	518.6	527.0
65°	265.6	265.6	269.8	286.7	337.3	392.1	379.5	333.1	320.4	312.0	307.8
67.5°	172.9	168.7	177.1	189.7	198.2	202.4	215.0	227.7	223.5	215.0	215.0
70°	105.4	101.2	109.6	126.5	130.7	139.1	151.8	168.7	164.4	156.0	160.2
72.5°	59.0	59.0	63.2	75.9	88.5	97.0	109.6	122.3	126.5	122.3	122.3
75°	21.1	25.3	33.7	46.4	54.8	67.5	80.1	92.8	105.4	97.0	92.8
77.5°	8.4	8.4	16.9	29.5	42.2	54.8	75.9	88.5	97.0	88.5	80.1
80°	4.2	4.2	12.6	25.3	37.9	50.6	63.2	75.9	80.1	71.7	63.2
82.5°	4.2	4.2	12.6	25.3	37.9	46.4	67.5	75.9	84.3	75.9	63.2
85°	0.0	4.2	12.6	25.3	33.7	37.9	37.9	25.3	21.1	12.6	12.6
87.5°	0.0	0.0	4.2	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)