

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P643013

Luminaire Tested: ML5615LSNFL259FS1E - 694TBZB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 694TBZB - 900LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

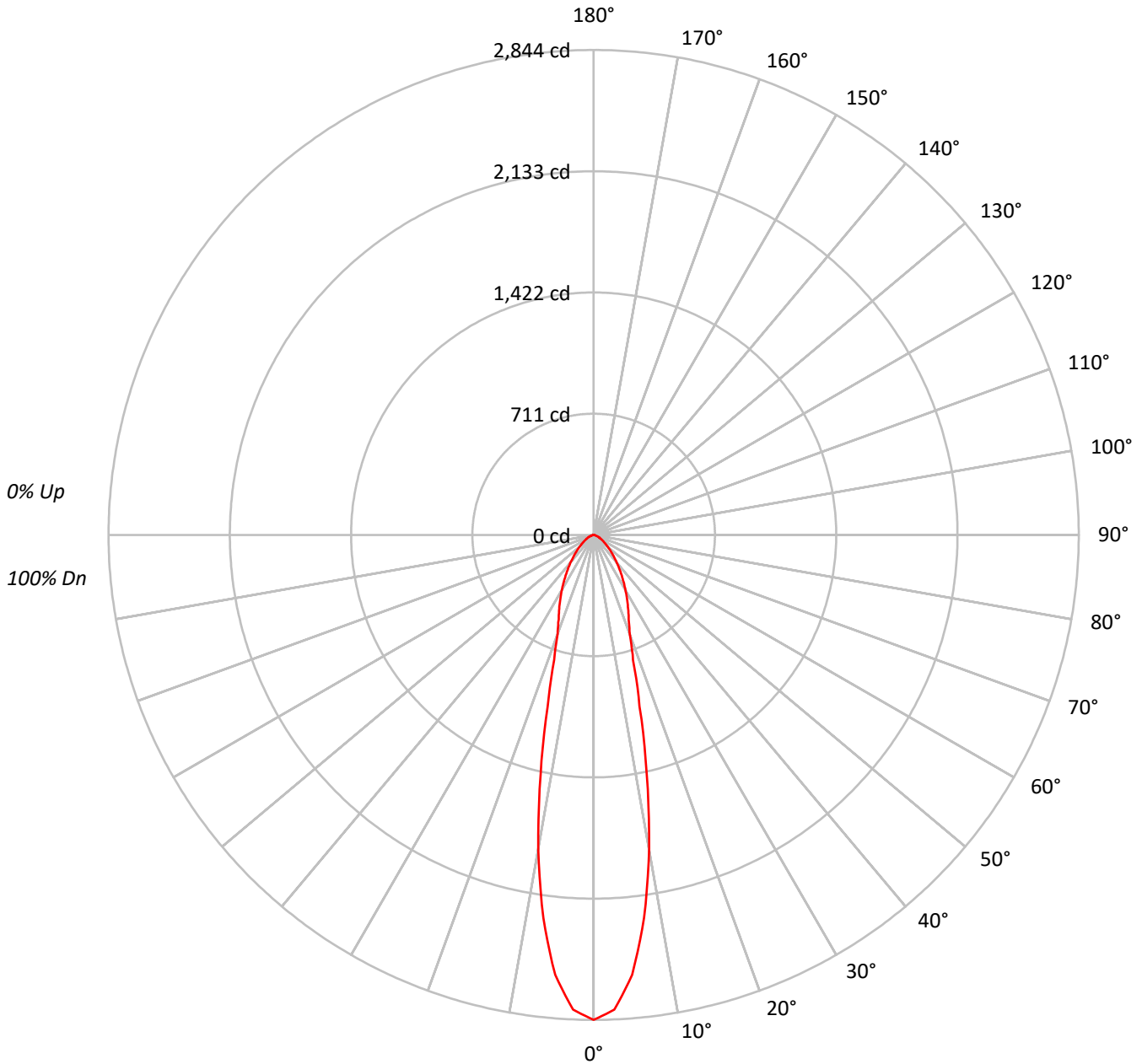
Lumens per Lamp: N/A
Luminaire Lumens: 1154.8 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73	73	73	73
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68	68	68	68
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64	64	64	64
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	61	60	60	60	60
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57	57	57	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54	54	54	54
10	72	63	57	53	71	62	57	53	62	56	53	61	56	53	60	56	53	51	51	51	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	155903
5°	142483
10°	104067
15°	59019
20°	36006
25°	28895
30°	23548
35°	18886
40°	14978
45°	11714
50°	9100
55°	7168
60°	5679
65°	4657
70°	3382
75°	2012
80°	1010
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11714 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	19.4
10°-20°	299.5	25.9
20°-30°	220.5	19.1
30°-40°	177.4	15.4
40°-50°	117.9	10.2
50°-60°	68.3	5.9
60°-70°	35.9	3.1
70°-80°	10.7	0.9
80°-90°	1.0	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°-30°	743.7	64.4
0°-40°	921.1	79.8
0°-60°	1107.2	95.9
0°-90°	1154.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1154.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2844	
5°	2589	224
15°	1040	300
25°	478	220
35°	282	177
45°	151	118
55°	75	68
65°	36	36
75°	10	11
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2843.9
2.5°	2786.9
5°	2589.2
7.5°	2264.8
10°	1869.5
12.5°	1437.3
15°	1039.9
17.5°	768.3
20°	617.2
22.5°	536.9
25°	477.7
27.5°	423.8
30°	372.0
32.5°	325.5
35°	282.2
37.5°	244.1
40°	209.3
42.5°	177.5
45°	151.1
47.5°	127.9
50°	106.7
52.5°	89.8
55°	75.0
57.5°	62.4
60°	51.8
62.5°	43.3
65°	35.9
67.5°	29.6
70°	21.1
72.5°	13.7
75°	9.5
77.5°	5.3
80°	3.2
82.5°	2.1
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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