

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: P643014

Luminaire Tested: ML5615LSNFL259FS1E - 694TBZB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643014
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 - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

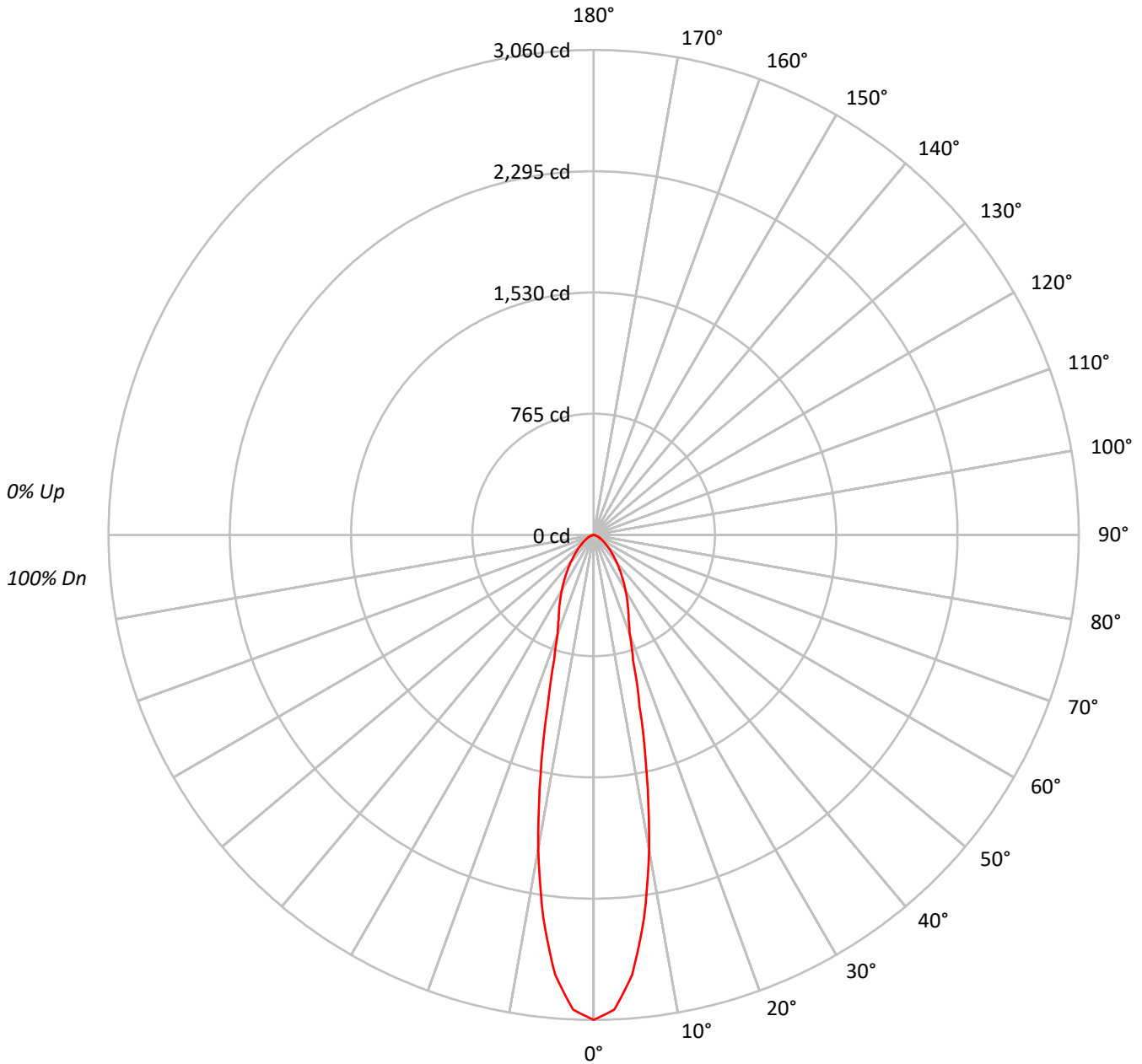
Lumens per Lamp: N/A
Luminaire Lumens: 1242.5 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): 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°	167750
5°	153307
10°	111972
15°	63502
20°	38743
25°	31091
30°	25339
35°	20318
40°	16109
45°	12606
50°	9791
55°	7713
60°	6107
65°	5020
70°	3638
75°	2160
80°	1073
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12606 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	19.4
10°-20°	322.3	25.9
20°-30°	237.2	19.1
30°-40°	190.9	15.4
40°-50°	126.9	10.2
50°-60°	73.5	5.9
60°-70°	38.6	3.1
70°-80°	11.5	0.9
80°-90°	1.1	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°	800.2	64.4
0°-40°	991.1	79.8
0°-60°	1191.4	95.9
0°-90°	1242.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3060	
5°	2786	241
15°	1119	322
25°	514	237
35°	304	191
45°	163	127
55°	81	73
65°	39	39
75°	10	11
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3060.0
2.5°	2998.6
5°	2785.9
7.5°	2436.8
10°	2011.5
12.5°	1546.5
15°	1118.9
17.5°	826.7
20°	664.1
22.5°	577.7
25°	514.0
27.5°	456.0
30°	400.3
32.5°	350.2
35°	303.6
37.5°	262.7
40°	225.1
42.5°	191.0
45°	162.6
47.5°	137.6
50°	114.8
52.5°	96.7
55°	80.7
57.5°	67.1
60°	55.7
62.5°	46.6
65°	38.7
67.5°	31.8
70°	22.7
72.5°	14.8
75°	10.2
77.5°	5.7
80°	3.4
82.5°	2.3
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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