

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: P643015

Luminaire Tested: ML5615LSNFL259FS1E - 694TBZB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643015
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 - 5000K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

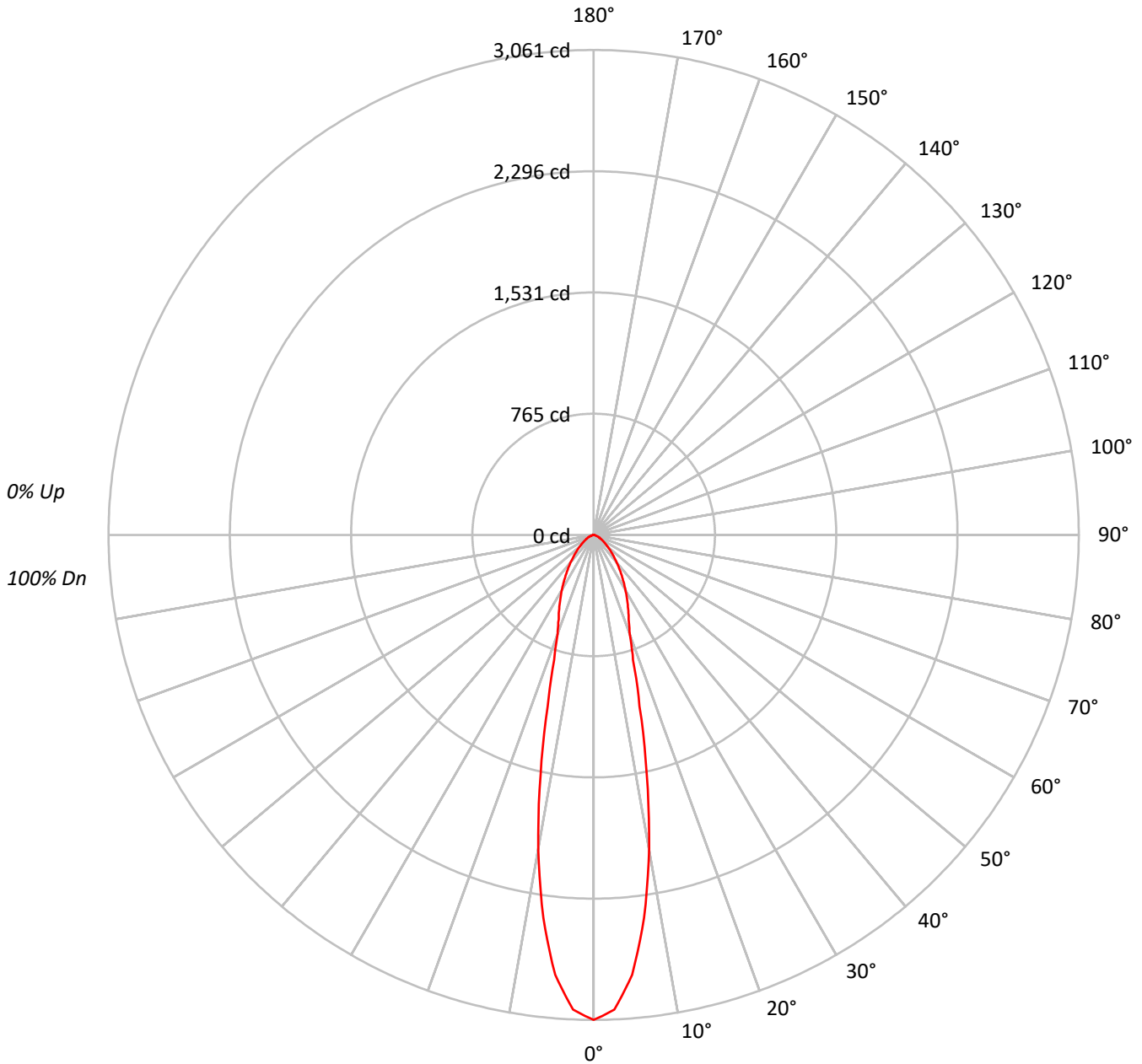
Lumens per Lamp: N/A
Luminaire Lumens: 1243.0 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	167810
5°	153367
10°	112016
15°	63525
20°	38754
25°	31103
30°	25346
35°	20325
40°	16116
45°	12614
50°	9799
55°	7723
60°	6107
65°	5020
70°	3654
75°	2160
80°	1073
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12614 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.7	19.4
10°-20°	322.4	25.9
20°-30°	237.3	19.1
30°-40°	191.0	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°	800.5	64.4
0°-40°	991.4	79.8
0°-60°	1191.8	95.9
0°-90°	1243.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1243.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3061	
5°	2787	241
15°	1119	322
25°	514	237
35°	304	191
45°	163	127
55°	81	73
65°	39	39
75°	10	12
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3061.1
2.5°	2999.7
5°	2787.0
7.5°	2437.7
10°	2012.3
12.5°	1547.1
15°	1119.3
17.5°	827.0
20°	664.3
22.5°	577.9
25°	514.2
27.5°	456.2
30°	400.4
32.5°	350.4
35°	303.7
37.5°	262.8
40°	225.2
42.5°	191.1
45°	162.7
47.5°	137.6
50°	114.9
52.5°	96.7
55°	80.8
57.5°	67.1
60°	55.7
62.5°	46.6
65°	38.7
67.5°	31.9
70°	22.8
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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