

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: P641023

Luminaire Tested: ML5612LSNFL2597FS1E - 594TBZB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 594TBZB - 1200LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

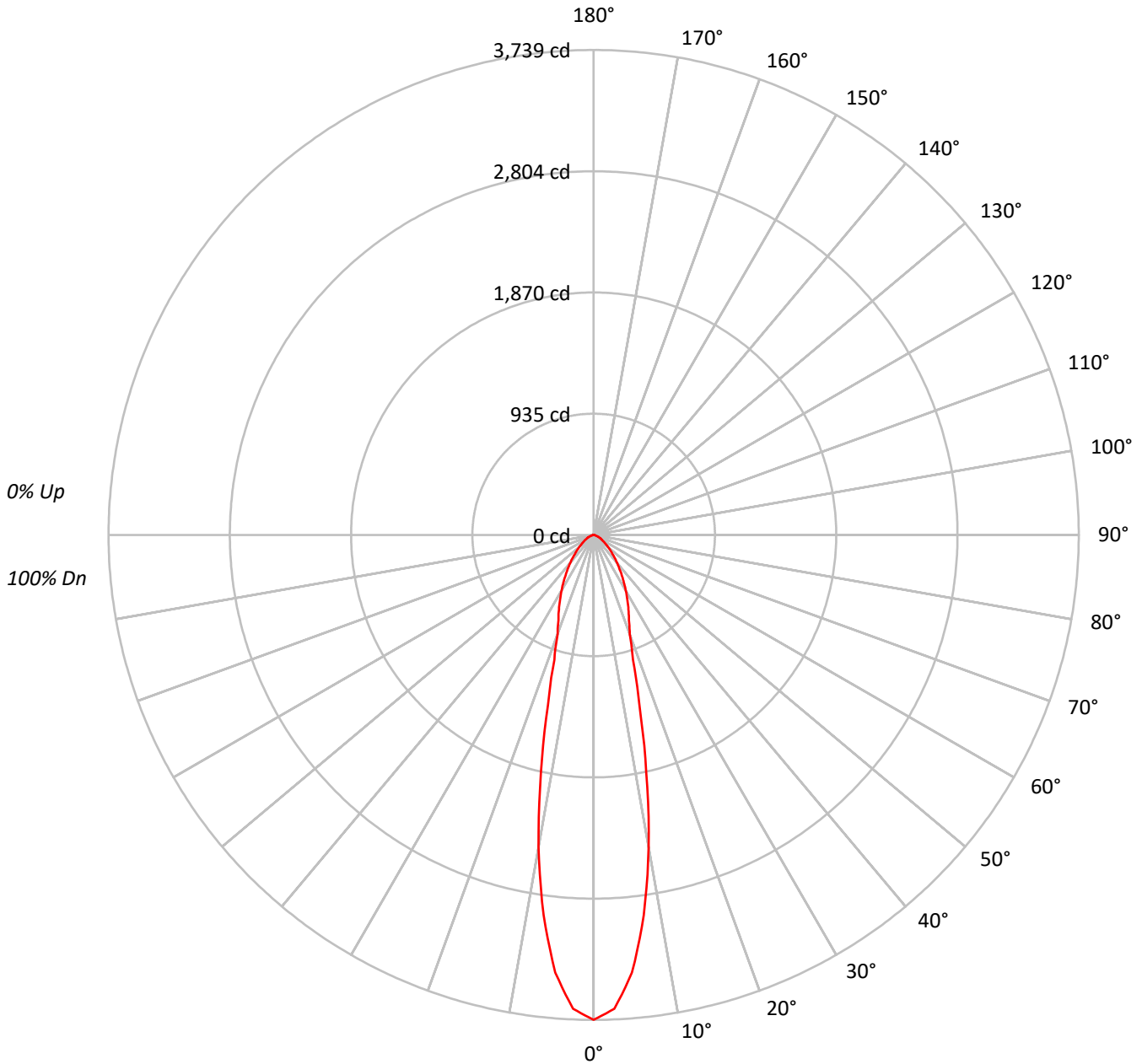
Lumens per Lamp: N/A
Luminaire Lumens: 1526.7 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92
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	81	85	83	80	78			78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	81	77	74	73			73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68			68
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	64			64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60			60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57			57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			54
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51			51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	295136
5°	268521
10°	195916
15°	111163
20°	68323
25°	55170
30°	45011
35°	36302
40°	28751
45°	22585
50°	17648
55°	13818
60°	11020
65°	9115
70°	6440
75°	3416
80°	2546
85°	1268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22585 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.6	19.2
10°-20°	391.9	25.7
20°-30°	292.1	19.1
30°-40°	236.4	15.5
40°-50°	158.1	10.4
50°-60°	91.5	6.0
60°-70°	48.2	3.2
70°-80°	13.9	0.9
80°-90°	1.9	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°	976.6	64.0
0°-40°	1213.0	79.5
0°-60°	1462.6	95.8
0°-90°	1526.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1526.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3739	
5°	3389	293
15°	1360	392
25°	633	292
35°	377	236
45°	202	158
55°	100	92
65°	49	48
75°	11	14
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3738.7
2.5°	3656.4
5°	3388.6
7.5°	2957.5
10°	2444.1
12.5°	1873.6
15°	1360.2
17.5°	1008.6
20°	813.3
22.5°	711.5
25°	633.4
27.5°	562.2
30°	493.8
32.5°	433.9
35°	376.7
37.5°	325.0
40°	279.0
42.5°	238.6
45°	202.3
47.5°	171.6
50°	143.7
52.5°	120.0
55°	100.4
57.5°	83.7
60°	69.8
62.5°	58.6
65°	48.8
67.5°	39.1
70°	27.9
72.5°	18.1
75°	11.2
77.5°	7.0
80°	5.6
82.5°	2.8
85°	1.4
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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