

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: P641024

Luminaire Tested: ML5612LSNFL2597FS1E - 594TBZB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641024
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 - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1642.6 lumens
Efficiency: N/A
Efficacy: 99.5 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

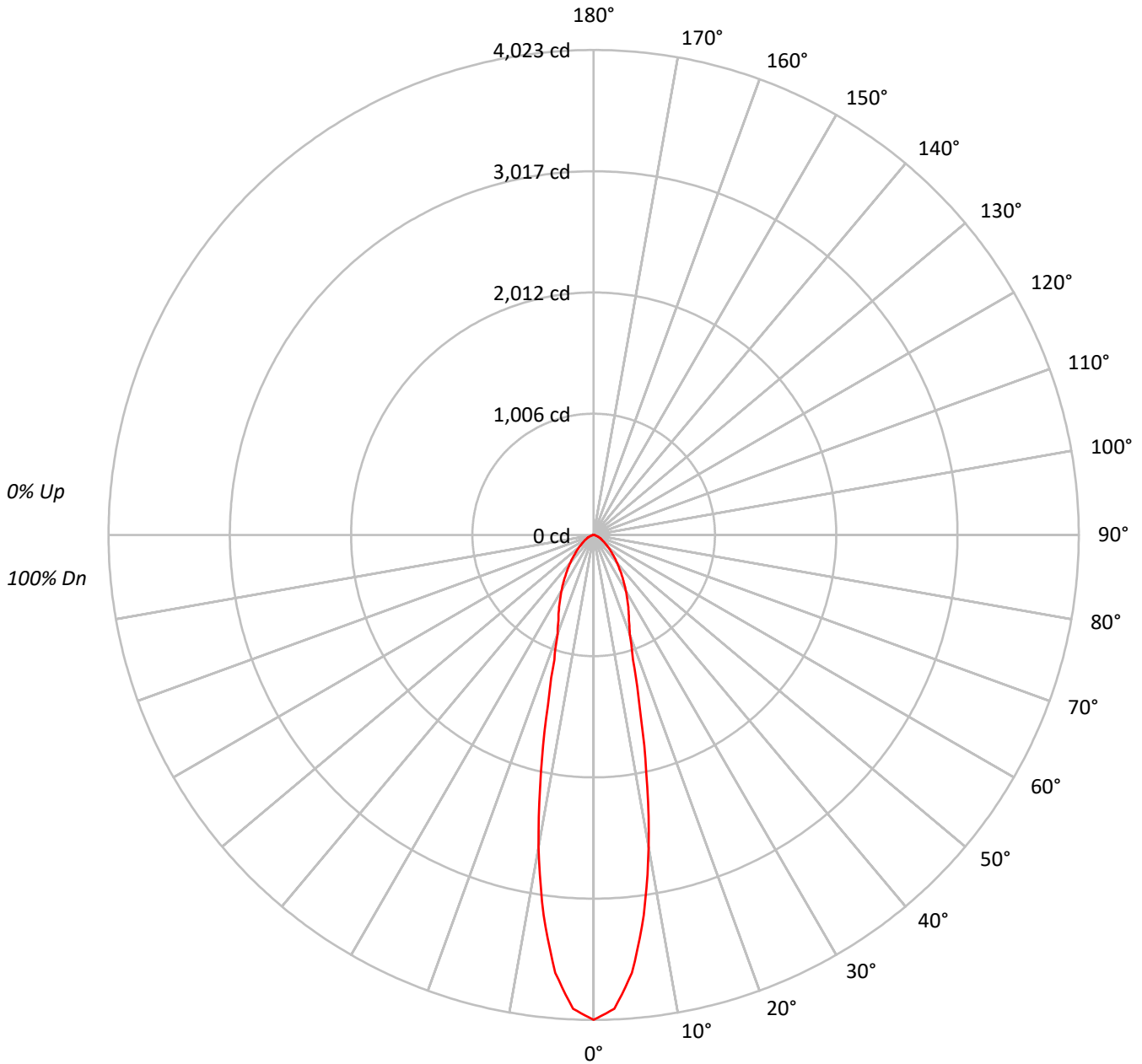
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	317556
5°	288918
10°	210801
15°	119605
20°	73515
25°	59360
30°	48439
35°	39058
40°	30936
45°	24293
50°	18986
55°	14878
60°	11857
65°	9806
70°	6924
75°	3660
80°	2728
85°	1359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24293 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.8	19.2
10°-20°	421.7	25.7
20°-30°	314.3	19.1
30°-40°	254.3	15.5
40°-50°	170.1	10.4
50°-60°	98.5	6.0
60°-70°	51.8	3.2
70°-80°	15.0	0.9
80°-90°	2.0	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°	1050.8	64.0
0°-40°	1305.1	79.5
0°-60°	1573.7	95.8
0°-90°	1642.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1642.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4023	
5°	3646	315
15°	1464	422
25°	682	314
35°	405	254
45°	218	170
55°	108	98
65°	52	52
75°	12	15
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4022.7
2.5°	3934.2
5°	3646.0
7.5°	3182.2
10°	2629.8
12.5°	2015.9
15°	1463.5
17.5°	1085.2
20°	875.1
22.5°	765.5
25°	681.5
27.5°	604.9
30°	531.4
32.5°	466.8
35°	405.3
37.5°	349.7
40°	300.2
42.5°	256.7
45°	217.6
47.5°	184.6
50°	154.6
52.5°	129.1
55°	108.1
57.5°	90.1
60°	75.1
62.5°	63.0
65°	52.5
67.5°	42.0
70°	30.0
72.5°	19.5
75°	12.0
77.5°	7.5
80°	6.0
82.5°	3.0
85°	1.5
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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