

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: P641036

Luminaire Tested: ML5612LSNFL2597FS1E - 594WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 594WB - 1200LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1454.1 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

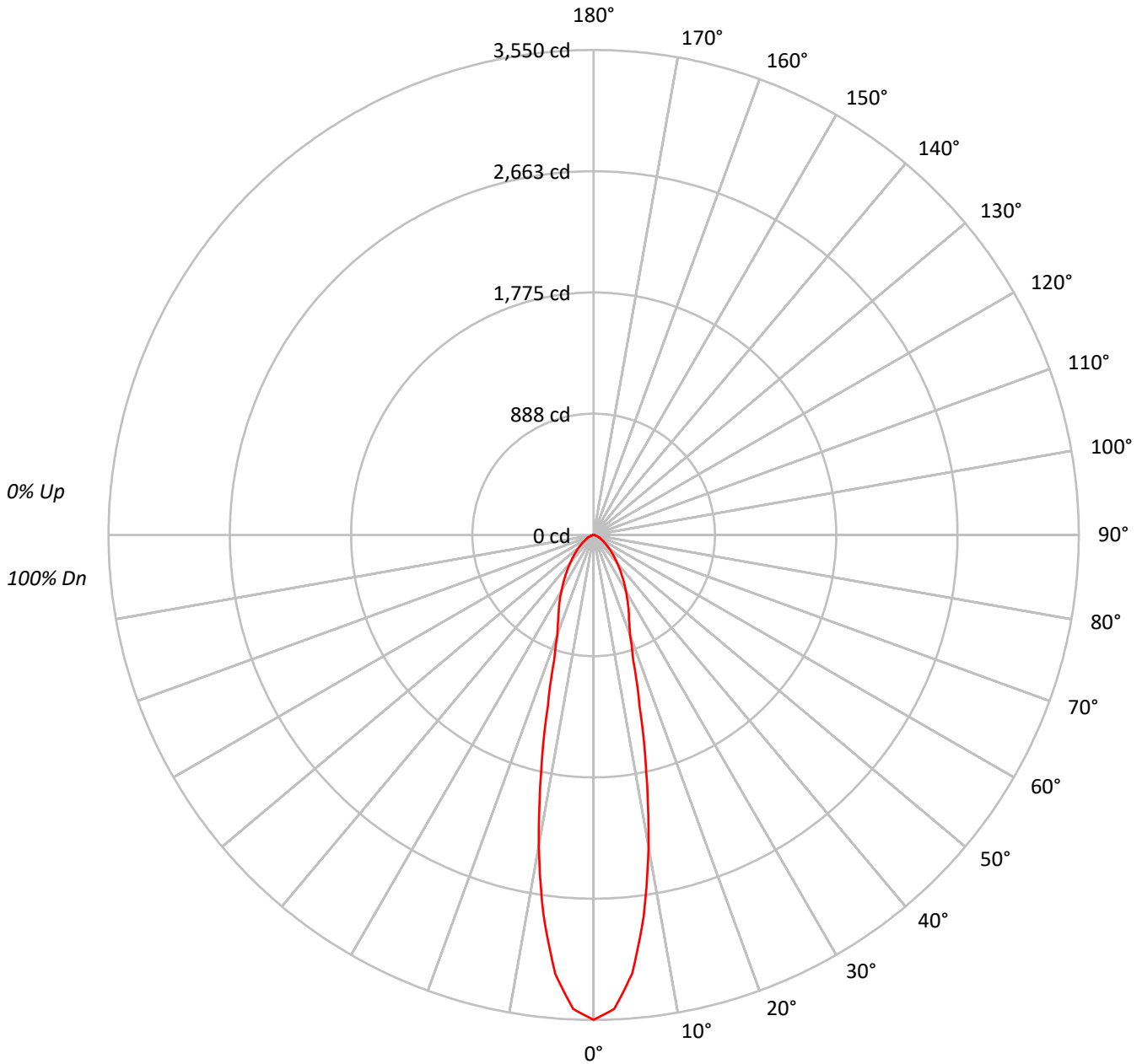
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641036

CATALOG NUMBER: ML5612LSNFL2597FS1E - 594WB - 1200LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641036

CATALOG NUMBER: ML5612LSNFL2597FS1E - 594WB - 1200LM - 2700K

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	98	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	90	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	80	77	74	73	73	73	73
5	91	82	76	72	89	81	75	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	63	63	63	63
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60	60	60	60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56	56	56	56
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54	54	54	54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51	51	51	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	280209
5°	255422
10°	185311
15°	105802
20°	65366
25°	52583
30°	42869
35°	34500
40°	27494
45°	21680
50°	16874
55°	13267
60°	10641
65°	8630
70°	6093
75°	3233
80°	2409
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21680 cd/sqm



TEST NUMBER: P641036

CATALOG NUMBER: ML5612LSNFL2597FS1E - 594WB - 1200LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.9	19.1
10°-20°	372.6	25.6
20°-30°	278.2	19.1
30°-40°	225.1	15.5
40°-50°	151.3	10.4
50°-60°	87.8	6.0
60°-70°	46.1	3.2
70°-80°	13.2	0.9
80°-90°	1.8	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°	928.7	63.9
0°-40°	1153.8	79.3
0°-60°	1393.0	95.8
0°-90°	1454.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3550	
5°	3223	278
15°	1295	373
25°	604	278
35°	358	225
45°	194	151
55°	96	88
65°	46	46
75°	11	13
85°	1	2
90°	0	



TEST NUMBER: P641036

CATALOG NUMBER: ML5612LSNFL2597FS1E - 594WB - 1200LM - 2700K

CANDELA DISTRIBUTION (FULL):

0°	
0°	3549.6
2.5°	3473.0
5°	3223.3
7.5°	2811.1
10°	2311.8
12.5°	1775.5
15°	1294.6
17.5°	963.0
20°	778.1
22.5°	676.4
25°	603.7
27.5°	535.0
30°	470.3
32.5°	412.2
35°	358.0
37.5°	310.4
40°	266.8
42.5°	228.5
45°	194.2
47.5°	163.8
50°	137.4
52.5°	114.9
55°	96.4
57.5°	80.6
60°	67.4
62.5°	55.5
65°	46.2
67.5°	38.3
70°	26.4
72.5°	17.2
75°	10.6
77.5°	6.6
80°	5.3
82.5°	2.6
85°	1.3
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

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)