

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: P641933

Luminaire Tested: ML5612LSWFL5597FS1E - 591WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 591WB - 900LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

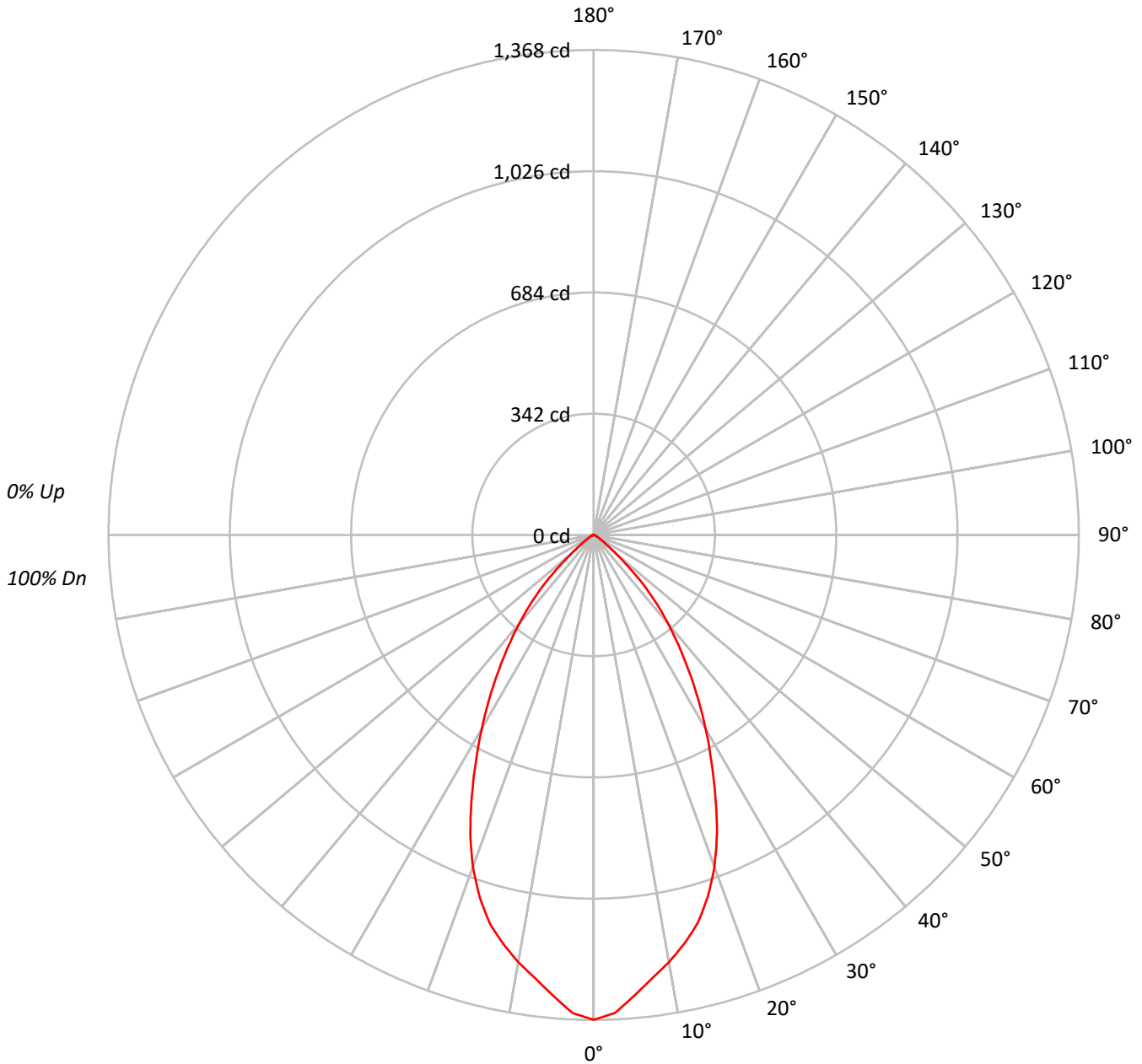
Lumens per Lamp: N/A
Luminaire Lumens: 1300.4 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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	96	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	81	85	82	80	78			78																
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72			72																
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	67			67																
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	66	63	62			62																
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57			57																
8	76	66	60	56	75	66	60	55	65	59	55	64	59	55	63	58	55	53			53																
9	73	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50			50																
10	69	59	53	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47			47																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	107952
5°	103435
10°	98074
15°	92644
20°	83621
25°	70744
30°	57545
35°	44966
40°	33594
45°	22127
50°	10328
55°	4280
60°	2542
65°	1513
70°	1062
75°	1068
80°	1046
85°	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22127 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	9.4
10°-20°	315.2	24.2
20°-30°	371.3	28.6
30°-40°	292.5	22.5
40°-50°	151.5	11.6
50°-60°	33.7	2.6
60°-70°	8.8	0.7
70°-80°	3.7	0.3
80°-90°	1.6	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°	808.6	62.2
0°-40°	1101.1	84.7
0°-60°	1286.3	98.9
0°-90°	1300.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1300.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1368	
5°	1305	122
15°	1134	315
25°	812	371
35°	467	293
45°	198	151
55°	31	34
65°	8	9
75°	4	4
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1367.5
2.5°	1350.2
5°	1305.3
7.5°	1261.5
10°	1223.5
12.5°	1180.9
15°	1133.6
17.5°	1070.3
20°	995.4
22.5°	909.0
25°	812.2
27.5°	717.7
30°	631.3
32.5°	547.2
35°	466.6
37.5°	394.0
40°	326.0
42.5°	261.5
45°	198.2
47.5°	131.3
50°	84.1
52.5°	50.7
55°	31.1
57.5°	20.7
60°	16.1
62.5°	11.5
65°	8.1
67.5°	5.8
70°	4.6
72.5°	3.5
75°	3.5
77.5°	3.5
80°	2.3
82.5°	2.3
85°	1.2
87.5°	1.2
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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