

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: P641399

Luminaire Tested: ML5612LSVWFL7597FS1E - 596WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 596WB - 1200LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1644.1 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.1
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

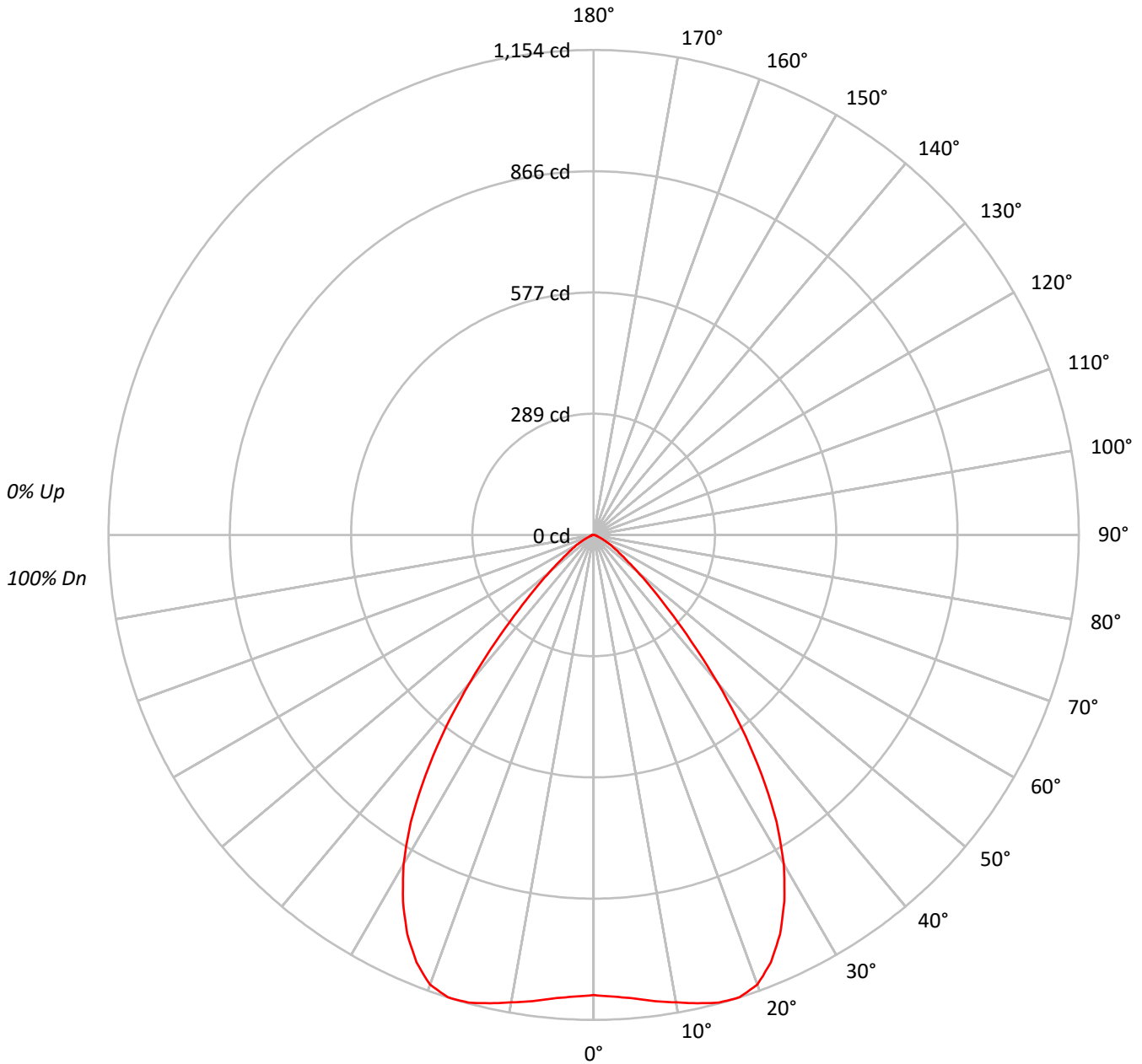
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			92
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69			69
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58			58
7	78	67	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53			53
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49			49
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	86440
5°	87729
10°	90547
15°	94156
20°	95651
25°	91326
30°	82430
35°	67169
40°	47053
45°	28010
50°	16604
55°	10130
60°	6884
65°	3923
70°	2077
75°	1830
80°	2046
85°	1359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28010 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	6.5
10°-20°	324.9	19.8
20°-30°	477.4	29.0
30°-40°	428.5	26.1
40°-50°	204.9	12.5
50°-60°	70.5	4.3
60°-70°	22.7	1.4
70°-80°	6.5	0.4
80°-90°	2.2	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°	908.8	55.3
0°-40°	1337.3	81.3
0°-60°	1612.6	98.1
0°-90°	1644.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1644.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1095	
5°	1107	106
15°	1152	325
25°	1048	477
35°	697	428
45°	251	205
55°	74	71
65°	21	23
75°	6	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1095.0
2.5°	1099.6
5°	1107.1
7.5°	1119.1
10°	1129.6
12.5°	1141.6
15°	1152.1
17.5°	1153.6
20°	1138.6
22.5°	1101.1
25°	1048.5
27.5°	982.4
30°	904.3
32.5°	809.6
35°	697.0
37.5°	576.8
40°	456.6
42.5°	344.0
45°	250.9
47.5°	184.8
50°	135.2
52.5°	97.6
55°	73.6
57.5°	57.1
60°	43.6
62.5°	31.5
65°	21.0
67.5°	13.5
70°	9.0
72.5°	7.5
75°	6.0
77.5°	4.5
80°	4.5
82.5°	3.0
85°	1.5
87.5°	1.5
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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(END OF REPORT)