

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: P642086

Luminaire Tested: ML5612LSWFL5597FS1E - 596WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-58)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 596WB - 1200LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

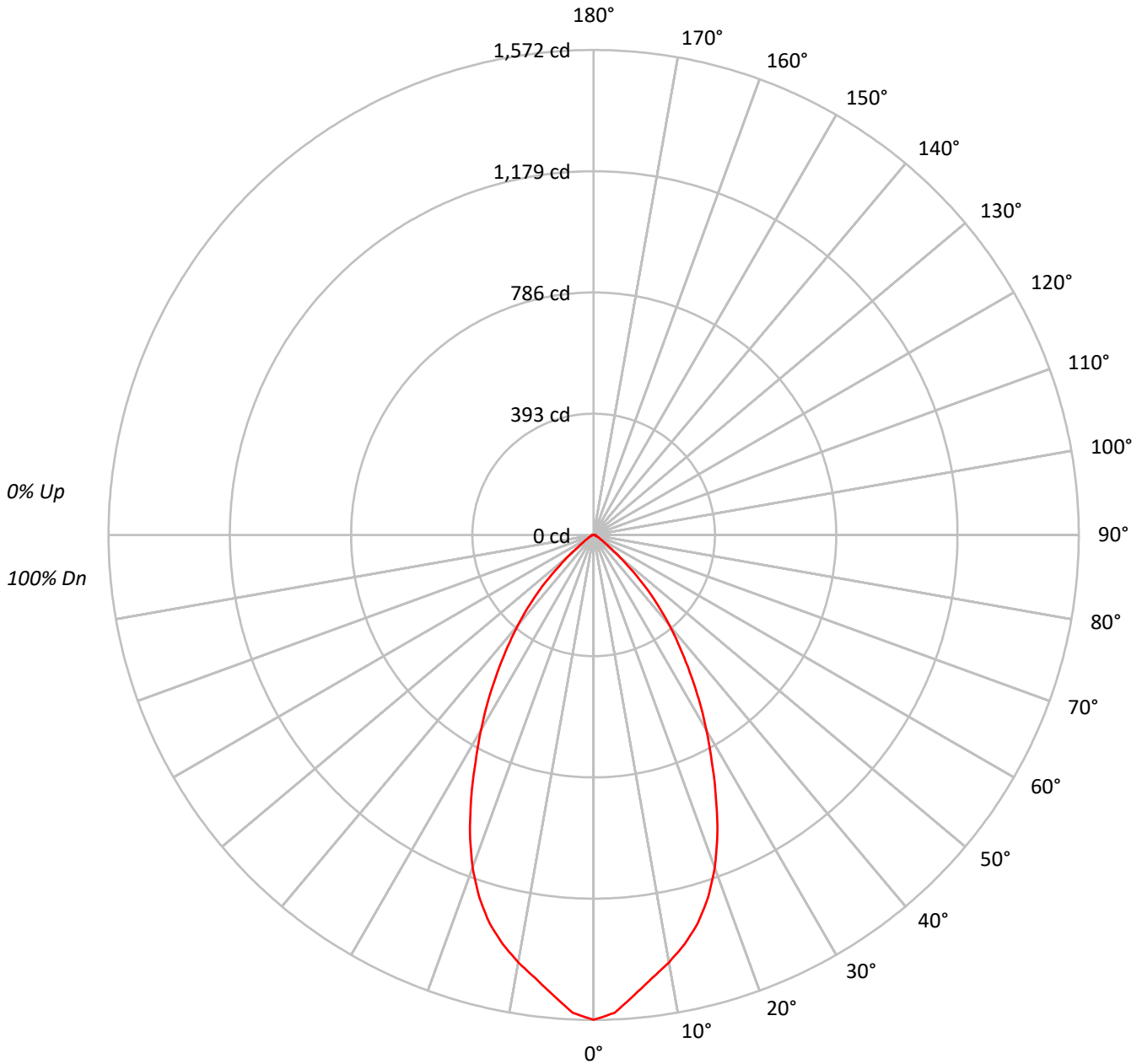
Lumens per Lamp: N/A
Luminaire Lumens: 1518.9 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85				85															
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78				78															
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72				72															
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66				66															
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61				61															
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57				57															
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53				53															
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49				49															
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46				46															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124071
5°	118681
10°	112751
15°	106538
20°	96415
25°	81675
30°	66578
35°	52309
40°	39334
45°	26246
50°	12649
55°	5629
60°	3552
65°	2466
70°	1823
75°	1220
80°	2409
85°	3623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26246 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	9.2
10°-20°	362.8	23.9
20°-30°	428.6	28.2
30°-40°	340.0	22.4
40°-50°	179.2	11.8
50°-60°	43.6	2.9
60°-70°	13.9	0.9
70°-80°	6.3	0.4
80°-90°	4.3	0.3
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°	931.6	61.3
0°-40°	1271.6	83.7
0°-60°	1494.4	98.4
0°-90°	1518.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1518.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1572	
5°	1498	140
15°	1304	363
25°	938	429
35°	543	340
45°	235	179
55°	41	44
65°	13	14
75°	4	6
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1571.7
2.5°	1550.6
5°	1497.7
7.5°	1448.9
10°	1406.6
12.5°	1359.1
15°	1303.6
17.5°	1232.3
20°	1147.7
22.5°	1047.4
25°	937.7
27.5°	829.4
30°	730.4
32.5°	635.3
35°	542.8
37.5°	458.3
40°	381.7
42.5°	306.4
45°	235.1
47.5°	157.2
50°	103.0
52.5°	64.7
55°	40.9
57.5°	29.1
60°	22.5
62.5°	17.2
65°	13.2
67.5°	10.6
70°	7.9
72.5°	6.6
75°	4.0
77.5°	6.6
80°	5.3
82.5°	5.3
85°	4.0
87.5°	4.0
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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