

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: P643901

Luminaire Tested: ML5615LSWFL559FS1E - 596WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643901
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: ML5615LSWFL559FS1E - 596WB - 1200LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

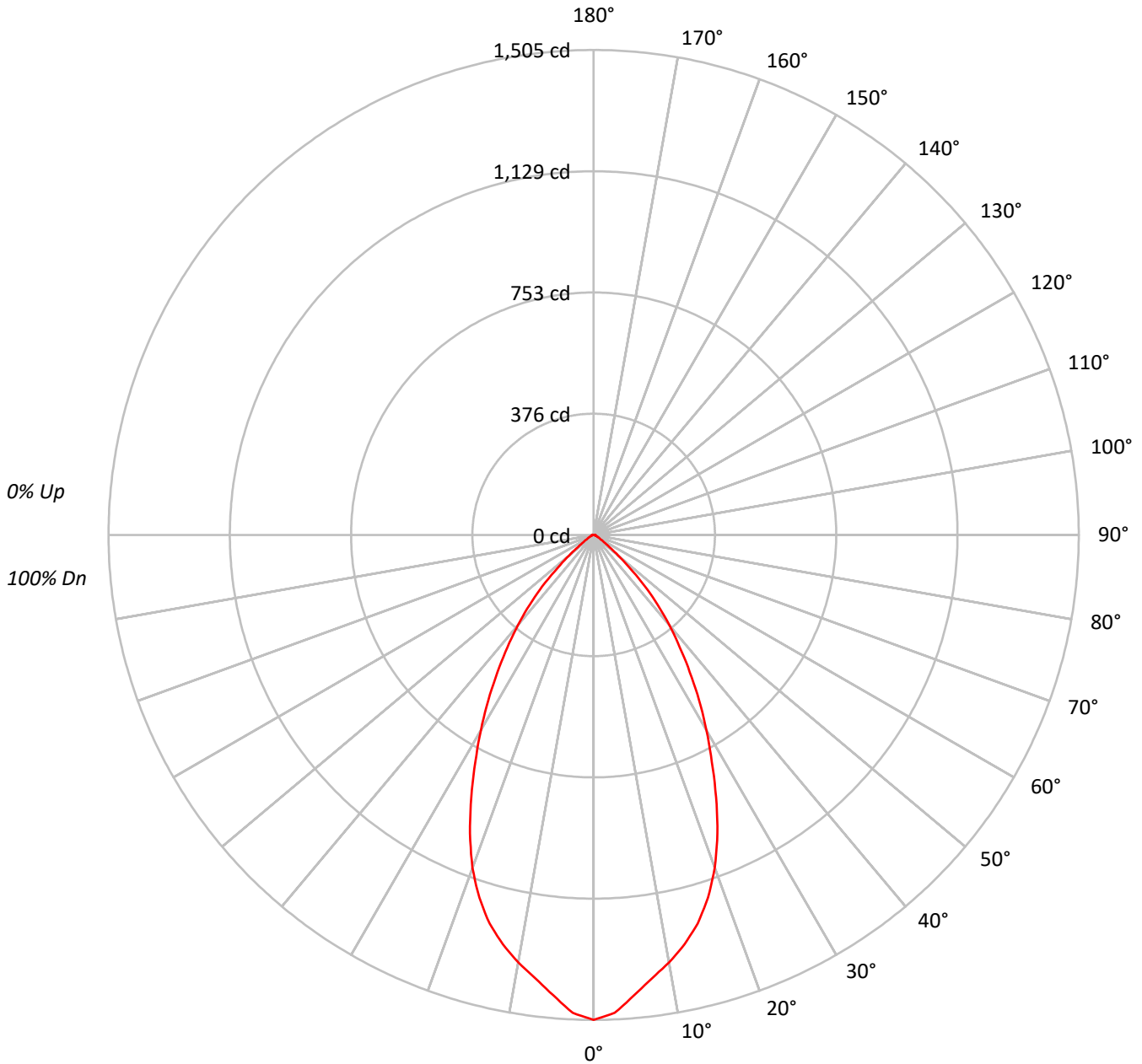
Lumens per Lamp: N/A
Luminaire Lumens: 1454.5 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
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°	118814
5°	113650
10°	107974
15°	102018
20°	92332
25°	78217
30°	63752
35°	50093
40°	37665
45°	25130
50°	12121
55°	5395
60°	3394
65°	2354
70°	1754
75°	1159
80°	2318
85°	3442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25130 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	9.2
10°-20°	347.4	23.9
20°-30°	410.4	28.2
30°-40°	325.6	22.4
40°-50°	171.6	11.8
50°-60°	41.8	2.9
60°-70°	13.2	0.9
70°-80°	6.0	0.4
80°-90°	4.2	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°	892.1	61.3
0°-40°	1217.7	83.7
0°-60°	1431.1	98.4
0°-90°	1454.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1505	
5°	1434	134
15°	1248	347
25°	898	410
35°	520	326
45°	225	172
55°	39	42
65°	13	13
75°	4	6
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1505.1
2.5°	1484.8
5°	1434.2
7.5°	1387.4
10°	1347.0
12.5°	1301.4
15°	1248.3
17.5°	1180.0
20°	1099.1
22.5°	1003.0
25°	898.0
27.5°	794.3
30°	699.4
32.5°	608.4
35°	519.8
37.5°	438.9
40°	365.5
42.5°	293.4
45°	225.1
47.5°	150.5
50°	98.7
52.5°	62.0
55°	39.2
57.5°	27.8
60°	21.5
62.5°	16.4
65°	12.6
67.5°	10.1
70°	7.6
72.5°	6.3
75°	3.8
77.5°	6.3
80°	5.1
82.5°	5.1
85°	3.8
87.5°	3.8
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)