

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: P643854

Luminaire Tested: ML5615LSWFL559FS1E - 593WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 593WB - 900LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

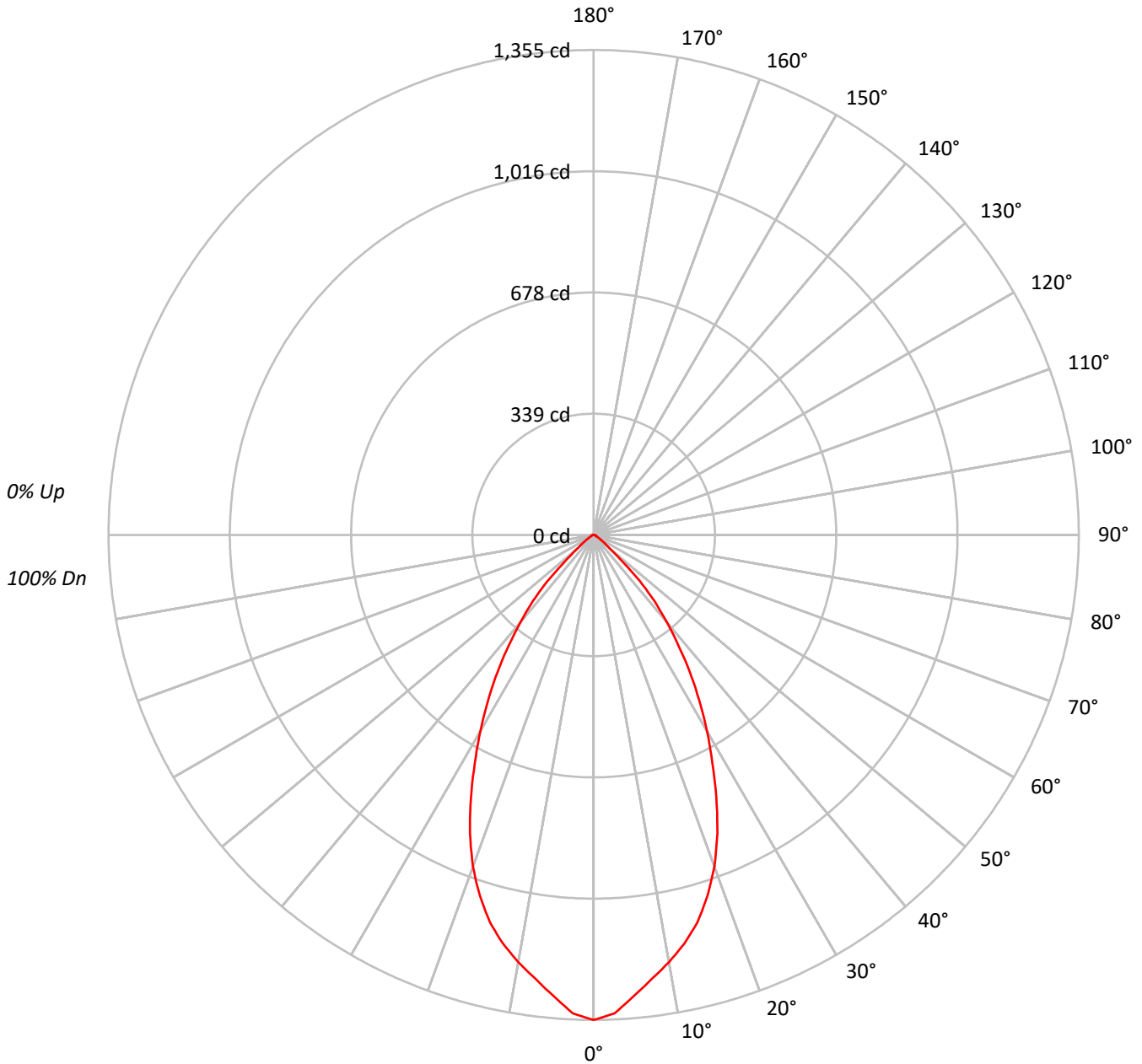
Lumens per Lamp: N/A
Luminaire Lumens: 1274.4 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93																
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85																
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79			79																
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			72																
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67			67																
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62																
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58																
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54																
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50																
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	106973
5°	102429
10°	97144
15°	91516
20°	82797
25°	70605
30°	57618
35°	45139
40°	32687
45°	20307
50°	7258
55°	3909
60°	1974
65°	1494
70°	1569
75°	1373
80°	1546
85°	2083

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20307 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	9.5
10°-20°	311.8	24.5
20°-30°	370.1	29.0
30°-40°	291.5	22.9
40°-50°	137.0	10.7
50°-60°	27.5	2.2
60°-70°	8.3	0.7
70°-80°	5.2	0.4
80°-90°	2.0	0.2
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°	802.8	63.0
0°-40°	1094.3	85.9
0°-60°	1258.8	98.8
0°-90°	1274.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1274.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1355	
5°	1293	121
15°	1120	312
25°	811	370
35°	468	292
45°	182	137
55°	28	28
65°	8	8
75°	4	5
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1355.1
2.5°	1338.0
5°	1292.6
7.5°	1250.5
10°	1211.9
12.5°	1169.8
15°	1119.8
17.5°	1057.2
20°	985.6
22.5°	902.6
25°	810.6
27.5°	718.5
30°	632.1
32.5°	549.1
35°	468.4
37.5°	388.8
40°	317.2
42.5°	251.2
45°	181.9
47.5°	101.2
50°	59.1
52.5°	40.9
55°	28.4
57.5°	19.3
60°	12.5
62.5°	9.1
65°	8.0
67.5°	6.8
70°	6.8
72.5°	5.7
75°	4.5
77.5°	4.5
80°	3.4
82.5°	2.3
85°	2.3
87.5°	1.1
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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