

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: P643848

Luminaire Tested: ML5615LSWFL559FS1E - 593WB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643848
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 - 1500LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1841.7 lumens
Efficiency: N/A
Efficacy: 107.7 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

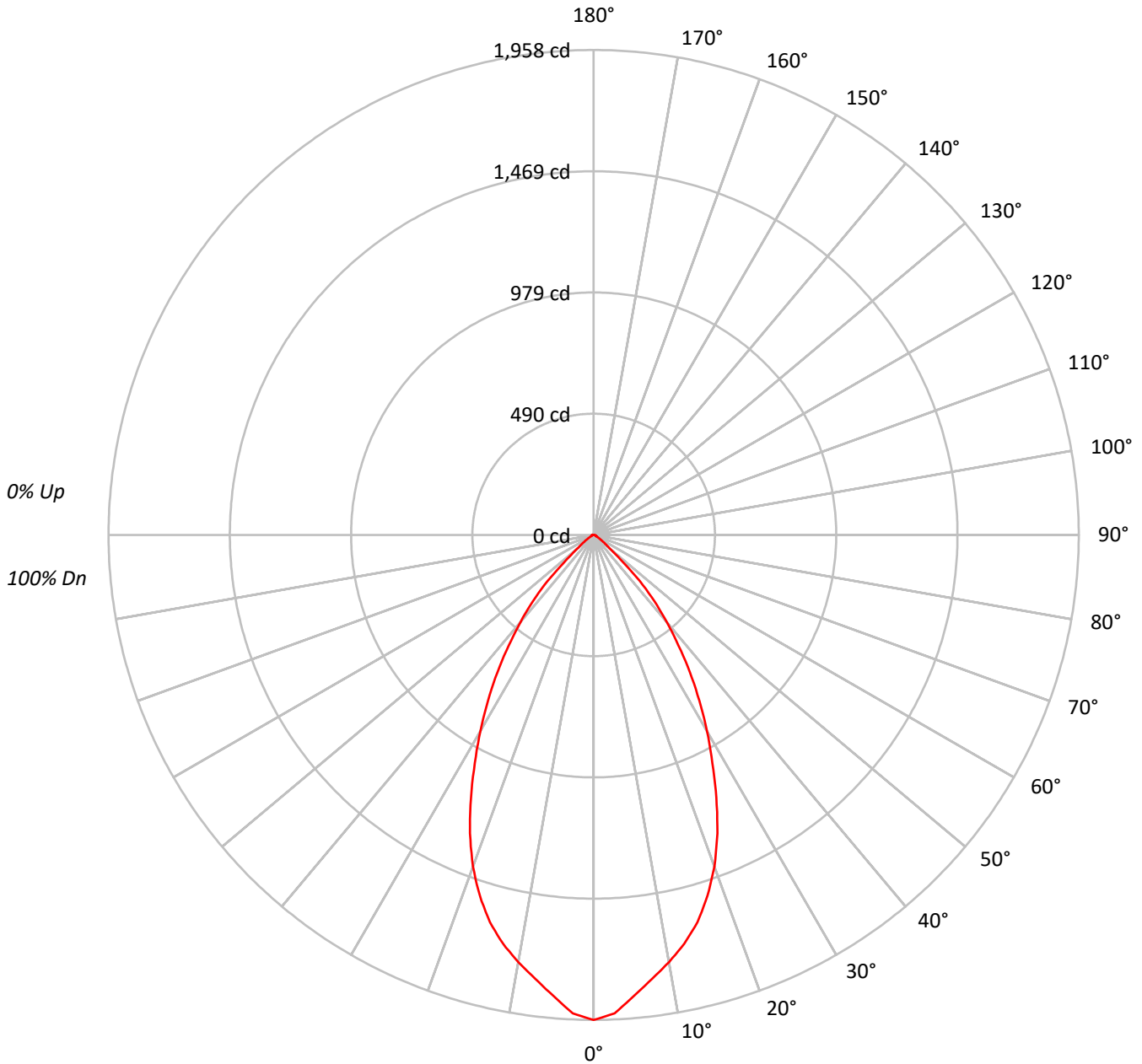
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	81	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°	154590
5°	148017
10°	140382
15°	132248
20°	119660
25°	102031
30°	83259
35°	65232
40°	47238
45°	29350
50°	10488
55°	5657
60°	2858
65°	2148
70°	2285
75°	2013
80°	2228
85°	2989

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29350 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.8	9.5
10°-20°	450.6	24.5
20°-30°	534.9	29.0
30°-40°	421.3	22.9
40°-50°	198.0	10.7
50°-60°	39.8	2.2
60°-70°	12.0	0.7
70°-80°	7.6	0.4
80°-90°	2.9	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°	1160.2	63.0
0°-40°	1581.5	85.9
0°-60°	1819.2	98.8
0°-90°	1841.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1841.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1958	
5°	1868	175
15°	1618	451
25°	1171	535
35°	677	421
45°	263	198
55°	41	40
65°	12	12
75°	7	8
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1958.3
2.5°	1933.7
5°	1867.9
7.5°	1807.2
10°	1751.3
12.5°	1690.5
15°	1618.2
17.5°	1527.9
20°	1424.4
22.5°	1304.4
25°	1171.4
27.5°	1038.3
30°	913.4
32.5°	793.5
35°	676.9
37.5°	561.9
40°	458.4
42.5°	363.1
45°	262.9
47.5°	146.2
50°	85.4
52.5°	59.1
55°	41.1
57.5°	27.9
60°	18.1
62.5°	13.1
65°	11.5
67.5°	9.9
70°	9.9
72.5°	8.2
75°	6.6
77.5°	6.6
80°	4.9
82.5°	3.3
85°	3.3
87.5°	1.6
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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