

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: P643846

Luminaire Tested: ML5615LSWFL559FS1E - 593WB - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643846
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 - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

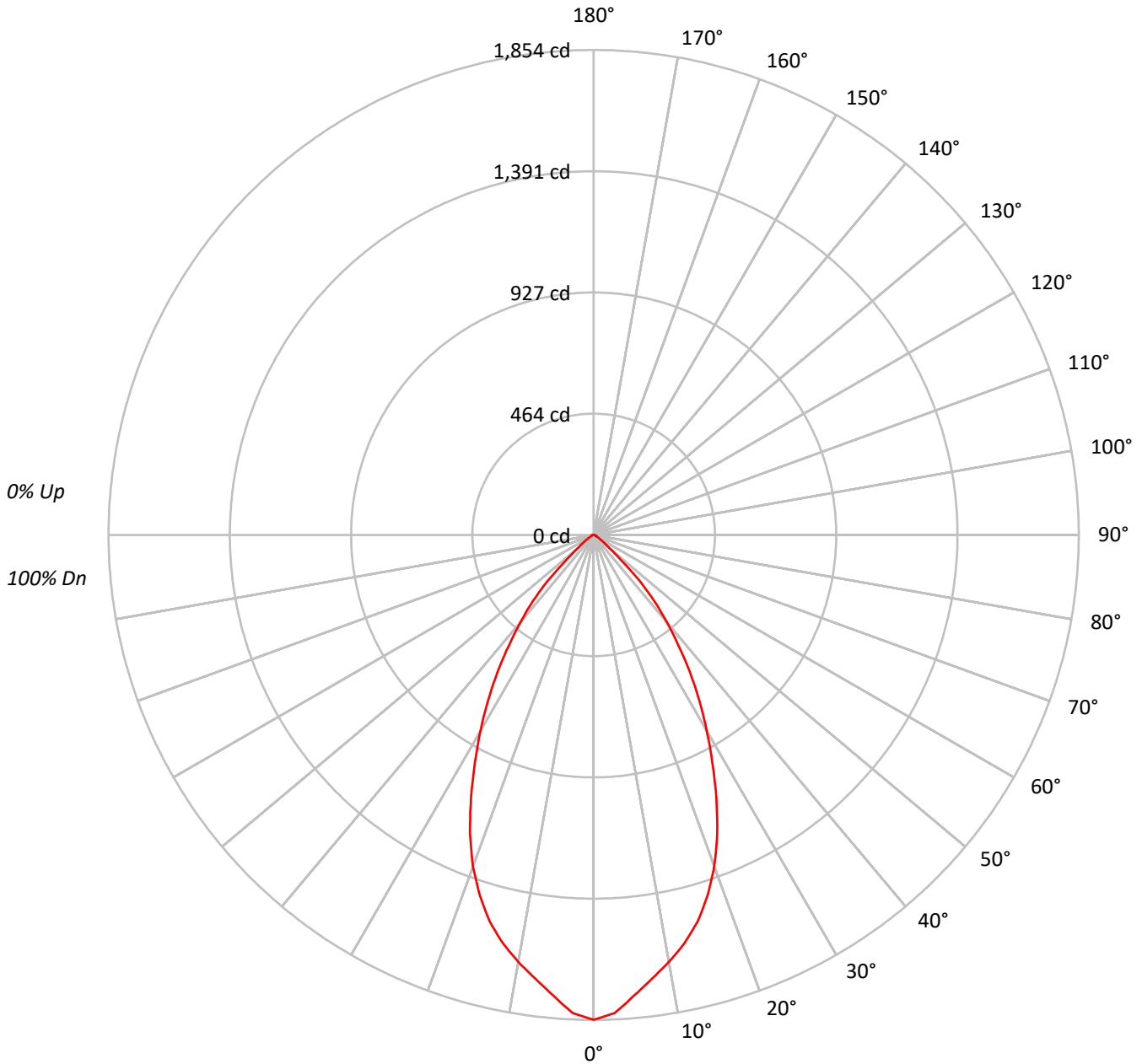
Lumens per Lamp: N/A
Luminaire Lumens: 1743.1 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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																			
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67																			
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62																			
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58																			
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54																			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50																			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	146317
5°	140093
10°	132863
15°	125171
20°	113250
25°	96570
30°	78802
35°	61734
40°	44703
45°	27776
50°	9935
55°	5354
60°	2700
65°	2036
70°	2147
75°	1891
80°	2137
85°	2808

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27776 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	9.5
10°-20°	426.5	24.5
20°-30°	506.2	29.0
30°-40°	398.7	22.9
40°-50°	187.3	10.7
50°-60°	37.7	2.2
60°-70°	11.3	0.6
70°-80°	7.2	0.4
80°-90°	2.8	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°	1098.1	63.0
0°-40°	1496.8	85.9
0°-60°	1721.8	98.8
0°-90°	1743.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1743.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1854	
5°	1768	165
15°	1532	426
25°	1109	506
35°	641	399
45°	249	187
55°	39	38
65°	11	11
75°	6	7
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1853.5
2.5°	1830.1
5°	1767.9
7.5°	1710.4
10°	1657.5
12.5°	1600.0
15°	1531.6
17.5°	1446.1
20°	1348.1
22.5°	1234.6
25°	1108.7
27.5°	982.7
30°	864.5
32.5°	751.0
35°	640.6
37.5°	531.8
40°	433.8
42.5°	343.6
45°	248.8
47.5°	138.4
50°	80.9
52.5°	56.0
55°	38.9
57.5°	26.4
60°	17.1
62.5°	12.4
65°	10.9
67.5°	9.3
70°	9.3
72.5°	7.8
75°	6.2
77.5°	6.2
80°	4.7
82.5°	3.1
85°	3.1
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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(END OF REPORT)