

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P643906

Luminaire Tested: ML5615LSWFL559FS1E - 596WB - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643906
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 - 1500LM - 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

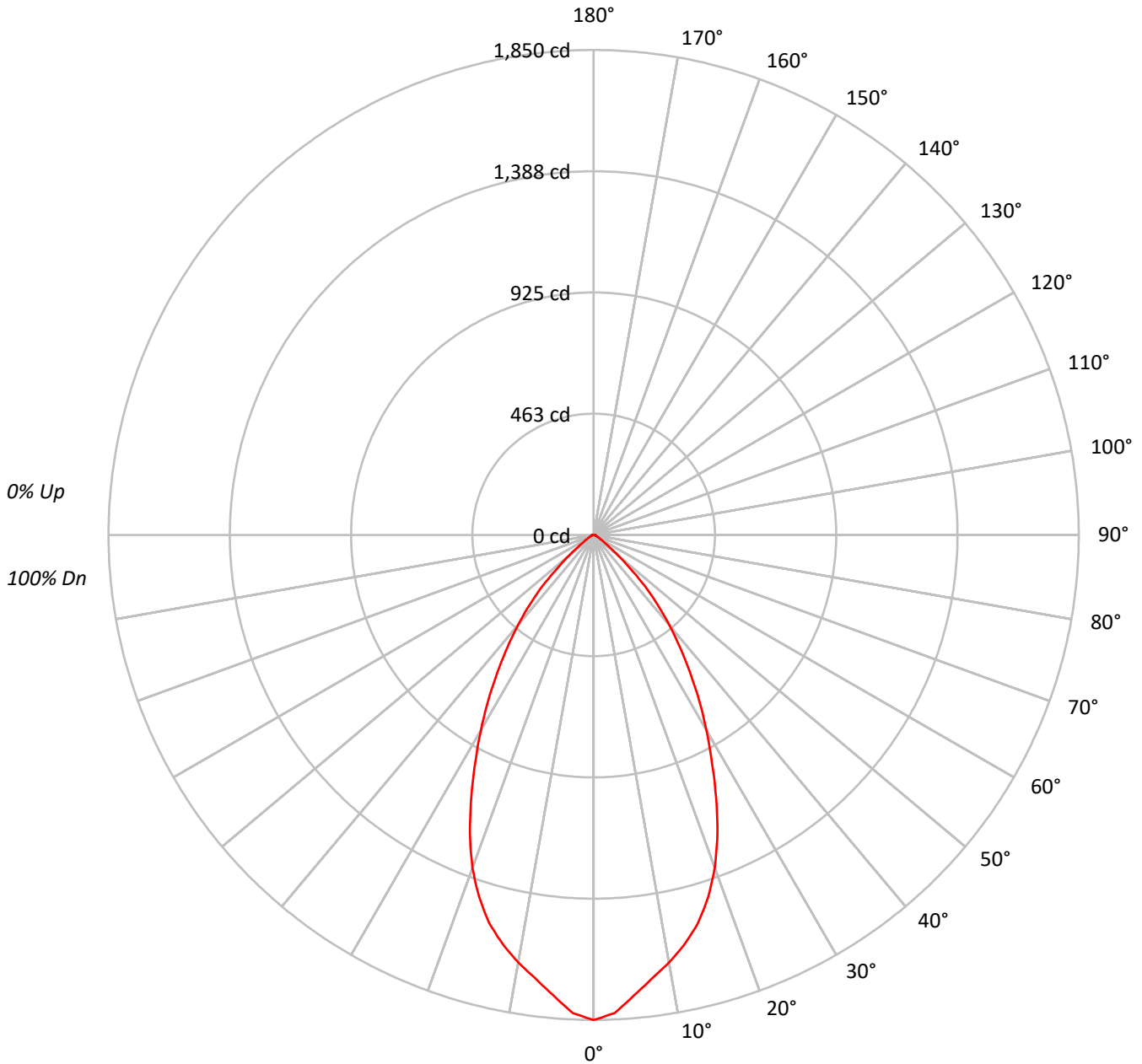
Lumens per Lamp: N/A
Luminaire Lumens: 1788.2 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	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°	146072
5°	139728
10°	132743
15°	125424
20°	113510
25°	96160
30°	78383
35°	61589
40°	46311
45°	30902
50°	14897
55°	6634
60°	4168
65°	2895
70°	2147
75°	1434
80°	2819
85°	4257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30902 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	9.2
10°-20°	427.2	23.9
20°-30°	504.6	28.2
30°-40°	400.3	22.4
40°-50°	210.9	11.8
50°-60°	51.4	2.9
60°-70°	16.3	0.9
70°-80°	7.4	0.4
80°-90°	5.1	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°	1096.8	61.3
0°-40°	1497.1	83.7
0°-60°	1759.4	98.4
0°-90°	1788.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1788.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1850	
5°	1763	165
15°	1535	427
25°	1104	505
35°	639	400
45°	277	211
55°	48	51
65°	16	16
75°	5	7
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1850.4
2.5°	1825.5
5°	1763.3
7.5°	1705.8
10°	1656.0
12.5°	1600.0
15°	1534.7
17.5°	1450.8
20°	1351.2
22.5°	1233.1
25°	1104.0
27.5°	976.5
30°	859.9
32.5°	747.9
35°	639.1
37.5°	539.6
40°	449.4
42.5°	360.7
45°	276.8
47.5°	185.0
50°	121.3
52.5°	76.2
55°	48.2
57.5°	34.2
60°	26.4
62.5°	20.2
65°	15.5
67.5°	12.4
70°	9.3
72.5°	7.8
75°	4.7
77.5°	7.8
80°	6.2
82.5°	6.2
85°	4.7
87.5°	4.7
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)