

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: P643744

Luminaire Tested: ML5615LSWFL559FS1E - 591WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 591WB - 1500LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1994.0 lumens
Efficiency: N/A
Efficacy: 116.6 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

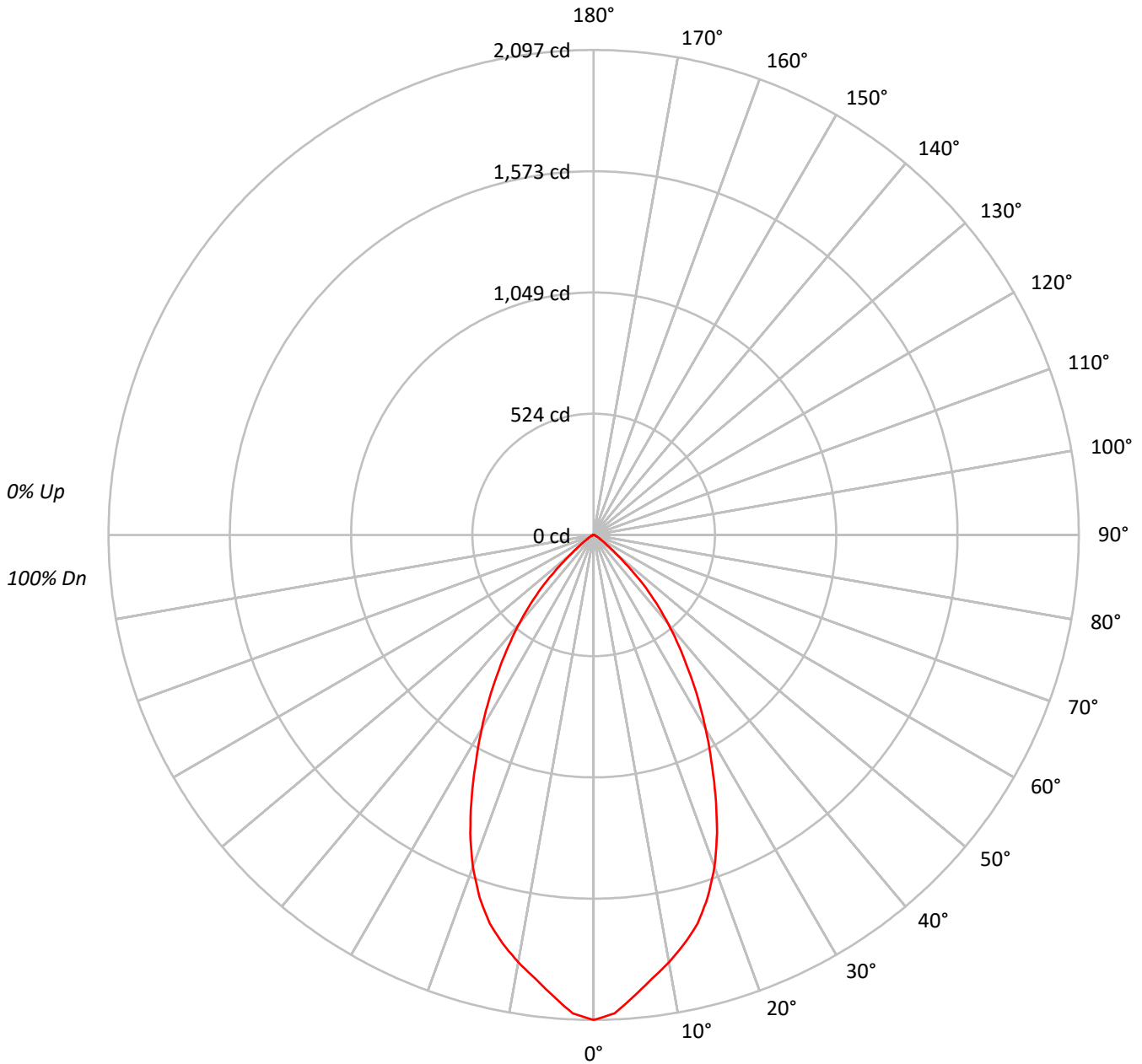
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	108	106	103	104	102	100	100	99	97	97	96	94	93				93															
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85															
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78				78															
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72				72															
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	67				67															
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	66	63	62				62															
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57				57															
8	76	66	60	56	75	66	60	55	65	59	55	64	59	55	63	58	55	53				53															
9	73	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50				50															
10	69	59	53	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47				47															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	165539
5°	158612
10°	150386
15°	142064
20°	128229
25°	108485
30°	88245
35°	68952
40°	51525
45°	33927
50°	15843
55°	6565
60°	3900
65°	2316
70°	1639
75°	1617
80°	1591
85°	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33927 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	9.4
10°-20°	483.4	24.2
20°-30°	569.4	28.6
30°-40°	448.6	22.5
40°-50°	232.3	11.7
50°-60°	51.6	2.6
60°-70°	13.5	0.7
70°-80°	5.6	0.3
80°-90°	2.4	0.1
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°	1239.9	62.2
0°-40°	1688.5	84.7
0°-60°	1972.5	98.9
0°-90°	1994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1994.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2097	
5°	2002	187
15°	1738	483
25°	1246	569
35°	716	449
45°	304	232
55°	48	52
65°	12	13
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2097.0
2.5°	2070.5
5°	2001.6
7.5°	1934.4
10°	1876.1
12.5°	1810.8
15°	1738.3
17.5°	1641.2
20°	1526.4
22.5°	1393.9
25°	1245.5
27.5°	1100.6
30°	968.1
32.5°	839.1
35°	715.5
37.5°	604.2
40°	500.0
42.5°	401.0
45°	303.9
47.5°	201.4
50°	129.0
52.5°	77.7
55°	47.7
57.5°	31.8
60°	24.7
62.5°	17.7
65°	12.4
67.5°	8.8
70°	7.1
72.5°	5.3
75°	5.3
77.5°	5.3
80°	3.5
82.5°	3.5
85°	1.8
87.5°	1.8
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)