

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: P643843

Luminaire Tested: ML5615LSWFL559FS1E - 593WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643843
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 - 1200LM - 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: 1498.0 lumens
Efficiency: N/A
Efficacy: 111.8 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

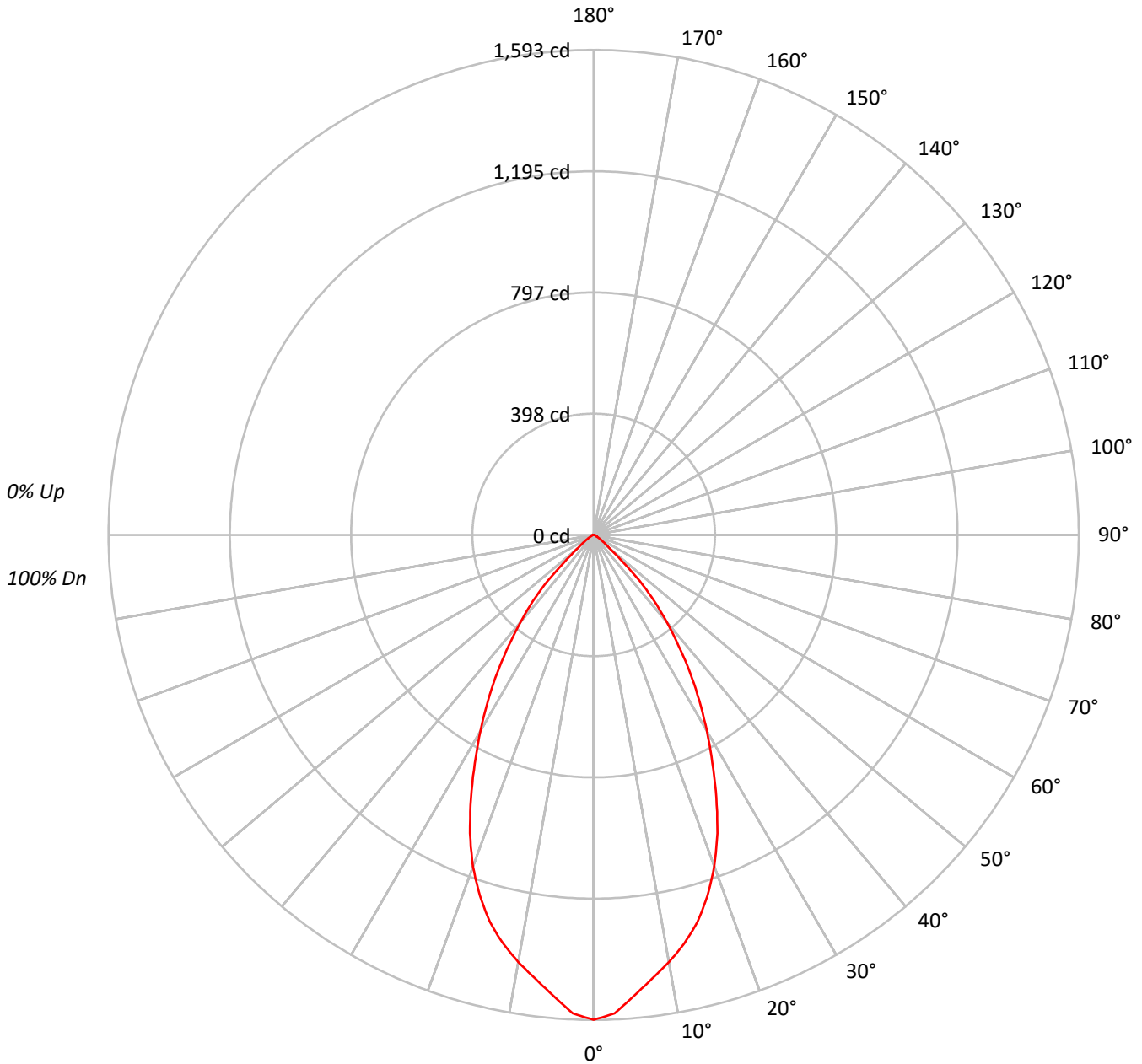
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	125745
5°	120401
10°	114186
15°	107575
20°	97331
25°	82990
30°	67727
35°	53061
40°	38417
45°	23868
50°	8535
55°	4597
60°	2321
65°	1756
70°	1846
75°	1617
80°	1818
85°	2446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23868 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	9.5
10°-20°	366.5	24.5
20°-30°	435.1	29.0
30°-40°	342.7	22.9
40°-50°	161.0	10.7
50°-60°	32.4	2.2
60°-70°	9.8	0.7
70°-80°	6.1	0.4
80°-90°	2.4	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°	943.7	63.0
0°-40°	1286.4	85.9
0°-60°	1479.7	98.8
0°-90°	1498.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1498.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1593	
5°	1519	142
15°	1316	366
25°	953	435
35°	551	343
45°	214	161
55°	33	32
65°	9	10
75°	5	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1592.9
2.5°	1572.8
5°	1519.4
7.5°	1469.9
10°	1424.5
12.5°	1375.0
15°	1316.3
17.5°	1242.8
20°	1158.6
22.5°	1061.0
25°	952.8
27.5°	844.5
30°	743.0
32.5°	645.4
35°	550.6
37.5°	457.0
40°	372.8
42.5°	295.3
45°	213.8
47.5°	118.9
50°	69.5
52.5°	48.1
55°	33.4
57.5°	22.7
60°	14.7
62.5°	10.7
65°	9.4
67.5°	8.0
70°	8.0
72.5°	6.7
75°	5.3
77.5°	5.3
80°	4.0
82.5°	2.7
85°	2.7
87.5°	1.3
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)