

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: P644022

Luminaire Tested: ML5615LSWFL559FS1E - 693WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644022
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-63)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 693WB - 1200LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1468.7 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

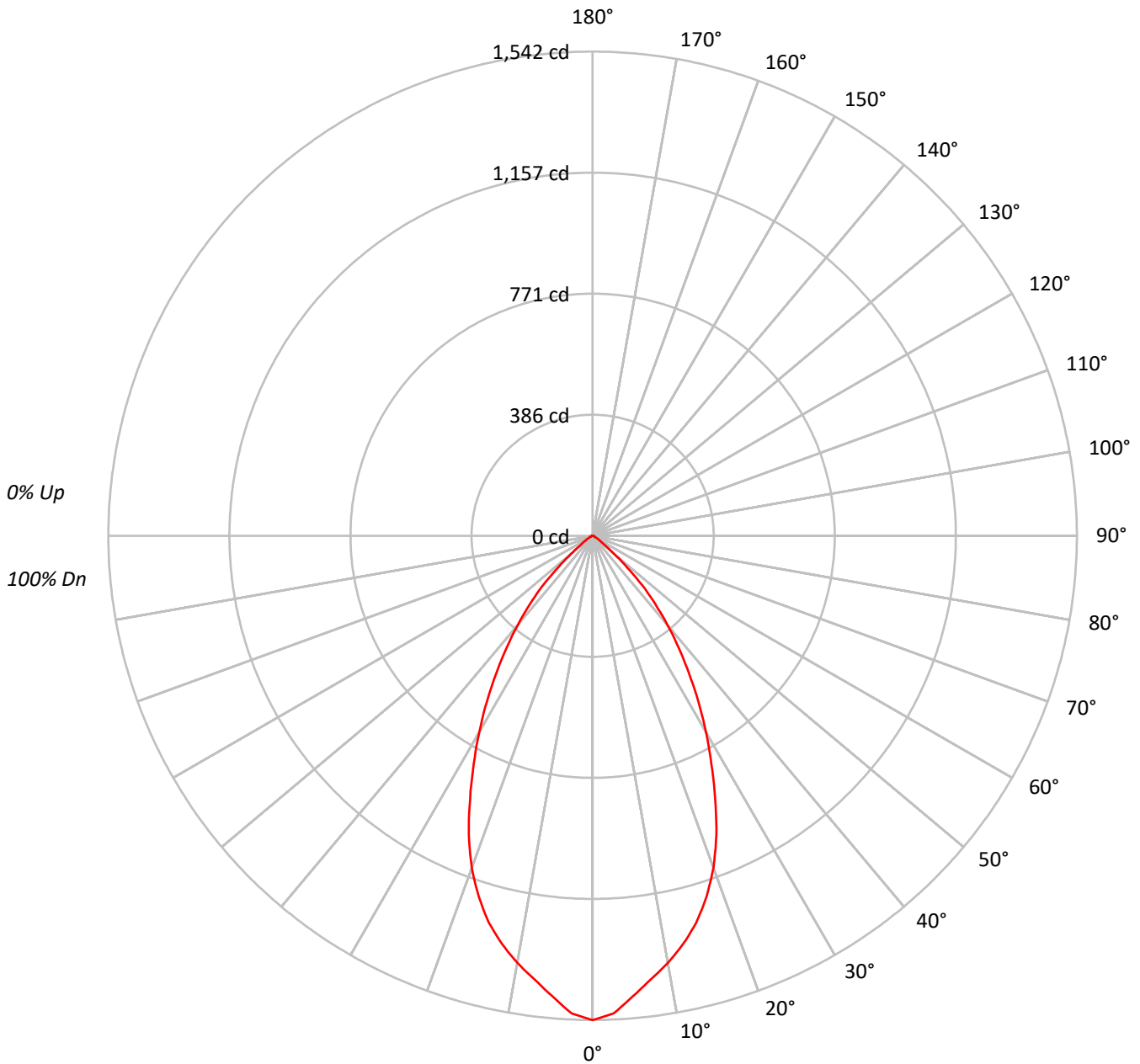
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	108	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	85	83	80	78			78
4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72			72
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67			67
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	67	63	62			62
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57			57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			53
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50			50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	84560
5°	81020
10°	76886
15°	72412
20°	65631
25°	55854
30°	45691
35°	35770
40°	26528
45°	17444
50°	7539
55°	3106
60°	1710
65°	843
70°	833
75°	826
80°	821
85°	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17444 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	9.4
10°-20°	355.4	24.2
20°-30°	422.2	28.7
30°-40°	334.5	22.8
40°-50°	170.6	11.6
50°-60°	34.7	2.4
60°-70°	7.7	0.5
70°-80°	4.1	0.3
80°-90°	1.8	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°	915.3	62.3
0°-40°	1249.8	85.1
0°-60°	1455.1	99.1
0°-90°	1468.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1468.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1542	
5°	1472	138
15°	1276	355
25°	923	422
35°	534	335
45°	225	171
55°	32	35
65°	6	8
75°	4	4
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1542.5
2.5°	1523.0
5°	1472.3
7.5°	1424.1
10°	1381.2
12.5°	1331.8
15°	1275.9
17.5°	1205.6
20°	1125.0
22.5°	1030.1
25°	923.4
27.5°	819.4
30°	721.8
32.5°	626.9
35°	534.5
37.5°	450.0
40°	370.7
42.5°	295.2
45°	225.0
47.5°	147.0
50°	88.4
52.5°	49.4
55°	32.5
57.5°	23.4
60°	15.6
62.5°	9.1
65°	6.5
67.5°	5.2
70°	5.2
72.5°	3.9
75°	3.9
77.5°	3.9
80°	2.6
82.5°	2.6
85°	1.3
87.5°	1.3
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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