

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: P643902

Luminaire Tested: ML5615LSWFL559FS1E - 596WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643902
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 - 1200LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1496.0 lumens
Efficiency: N/A
Efficacy: 111.6 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

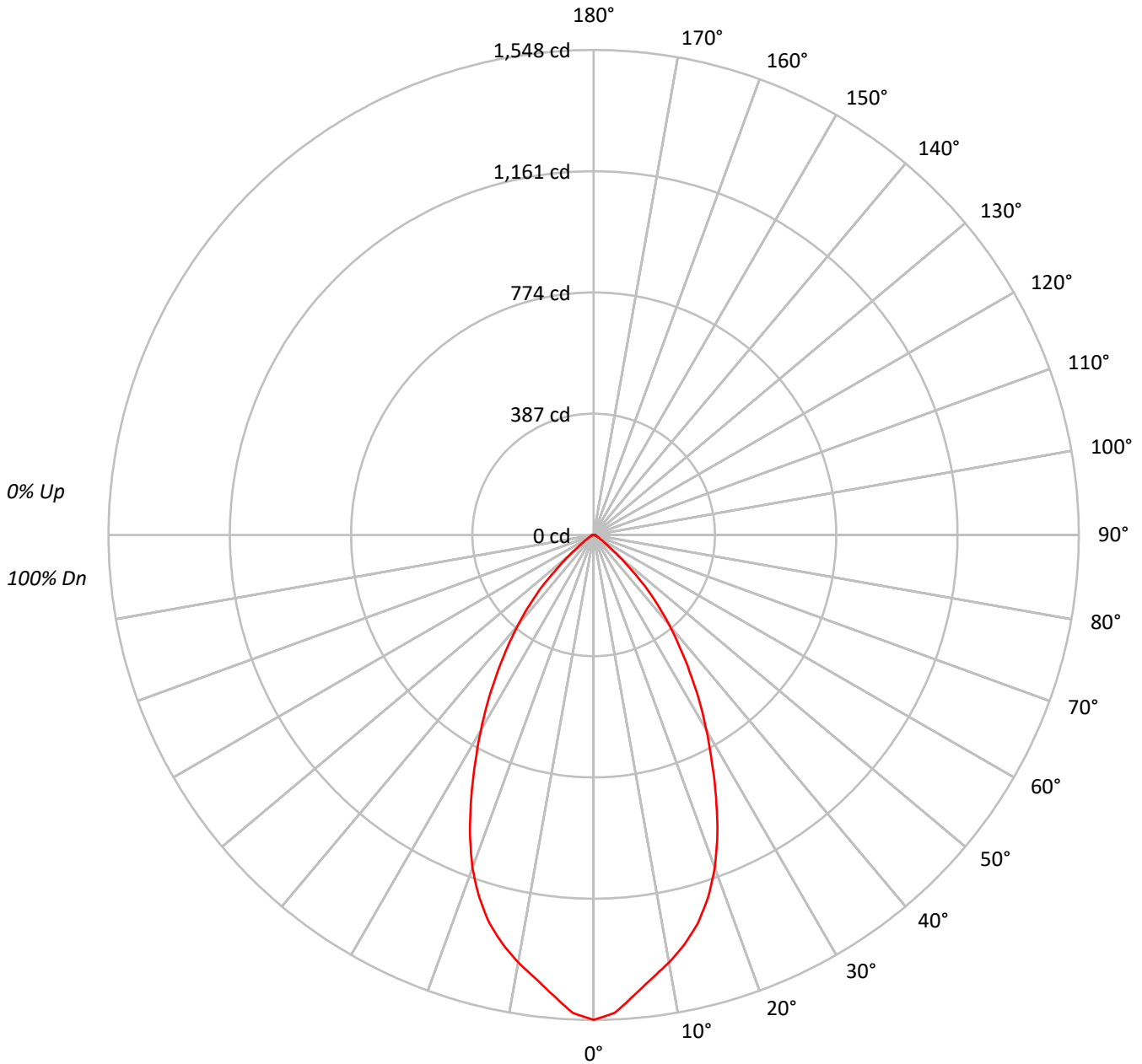
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	122208
5°	116898
10°	111060
15°	104936
20°	94970
25°	80447
30°	65576
35°	51529
40°	38747
45°	25856
50°	12465
55°	5546
60°	3489
65°	2428
70°	1800
75°	1190
80°	2364
85°	3532

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	9.2
10°-20°	357.4	23.9
20°-30°	422.2	28.2
30°-40°	334.9	22.4
40°-50°	176.5	11.8
50°-60°	42.9	2.9
60°-70°	13.6	0.9
70°-80°	6.2	0.4
80°-90°	4.3	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°	917.6	61.3
0°-40°	1252.5	83.7
0°-60°	1471.9	98.4
0°-90°	1496.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1496.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1548	
5°	1475	138
15°	1284	357
25°	924	422
35°	535	335
45°	232	176
55°	40	43
65°	13	14
75°	4	6
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1548.1
2.5°	1527.3
5°	1475.2
7.5°	1427.1
10°	1385.5
12.5°	1338.6
15°	1284.0
17.5°	1213.7
20°	1130.5
22.5°	1031.6
25°	923.6
27.5°	817.0
30°	719.4
32.5°	625.7
35°	534.7
37.5°	451.4
40°	376.0
42.5°	301.8
45°	231.6
47.5°	154.8
50°	101.5
52.5°	63.7
55°	40.3
57.5°	28.6
60°	22.1
62.5°	16.9
65°	13.0
67.5°	10.4
70°	7.8
72.5°	6.5
75°	3.9
77.5°	6.5
80°	5.2
82.5°	5.2
85°	3.9
87.5°	3.9
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)