

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: P643984

Luminaire Tested: ML5615LSWFL559FS1E - 693BB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-64)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 693BB - 1500LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1953.3 lumens
Efficiency: N/A
Efficacy: 114.2 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

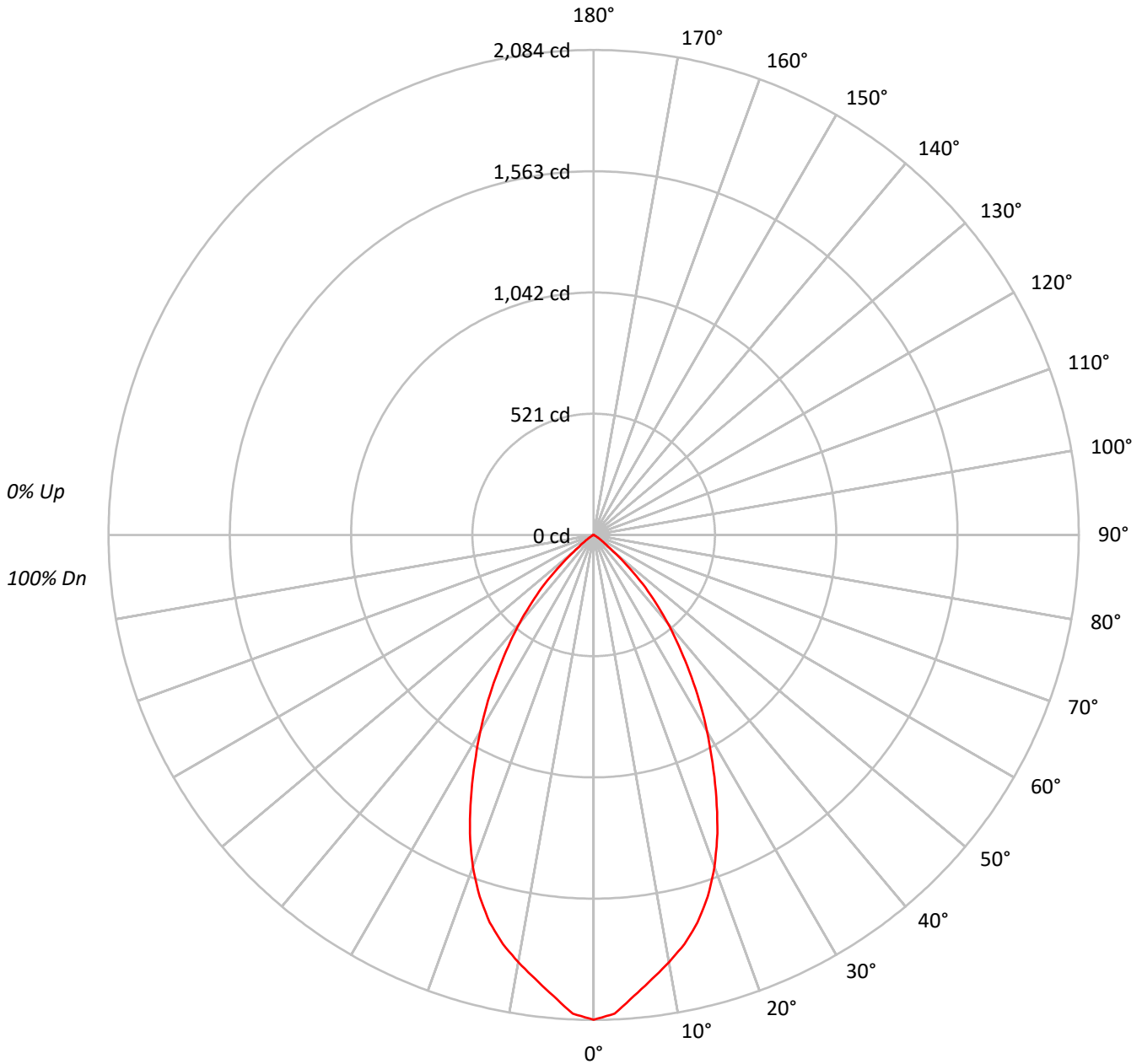
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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																			
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86																			
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79																			
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																			
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58																			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54																			
9	73	63	57	53	72	62	56	52	61	56	52	61	56	52	60	55	52	50																			
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	114223
5°	109399
10°	103772
15°	97872
20°	88534
25°	75422
30°	61579
35°	47937
40°	35438
45°	23033
50°	9501
55°	3546
60°	1546
65°	233
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23033 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	9.5
10°-20°	480.1	24.6
20°-30°	569.5	29.2
30°-40°	448.8	23.0
40°-50°	225.5	11.5
50°-60°	39.9	2.0
60°-70°	3.4	0.2
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1235.6	63.3
0°-40°	1684.4	86.2
0°-60°	1949.8	99.8
0°-90°	1953.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1953.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2084	
5°	1988	186
15°	1724	480
25°	1247	569
35°	716	449
45°	297	225
55°	37	40
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2083.6
2.5°	2058.8
5°	1988.0
7.5°	1924.4
10°	1864.2
12.5°	1800.6
15°	1724.5
17.5°	1629.0
20°	1517.6
22.5°	1388.4
25°	1246.9
27.5°	1105.4
30°	972.8
32.5°	843.7
35°	716.3
37.5°	601.4
40°	495.2
42.5°	392.7
45°	297.1
47.5°	192.8
50°	111.4
52.5°	58.4
55°	37.1
57.5°	23.0
60°	14.1
62.5°	5.3
65°	1.8
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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(END OF REPORT)