

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: P643054

Luminaire Tested: ML5615LSVWFL759FS1E - 591WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 591WB - 1500LM - 4000K
Description: ML56 RR, 75D 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: 1923.2 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

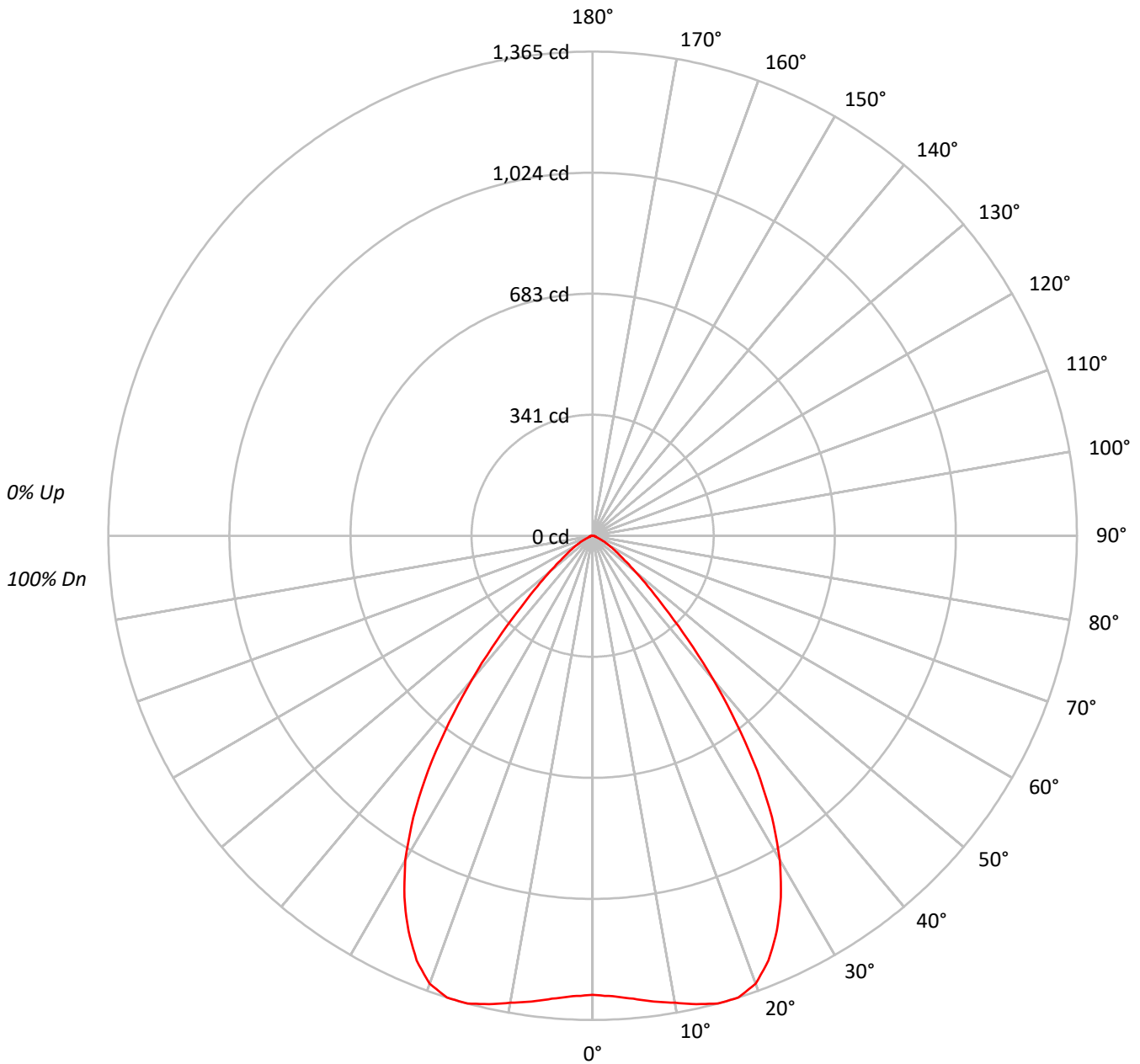
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92																			
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69																			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	60	58																			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53																			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49																			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	70948
5°	72094
10°	74409
15°	77469
20°	78389
25°	74327
30°	66814
35°	54074
40°	37835
45°	22204
50°	13270
55°	8277
60°	5625
65°	3217
70°	1699
75°	1504
80°	1673
85°	2201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22204 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	6.5
10°-20°	384.5	20.0
20°-30°	560.0	29.1
30°-40°	496.9	25.8
40°-50°	235.2	12.2
50°-60°	82.2	4.3
60°-70°	26.7	1.4
70°-80°	8.2	0.4
80°-90°	3.6	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°	1070.5	55.7
0°-40°	1567.3	81.5
0°-60°	1884.7	98.0
0°-90°	1923.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1923.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1294	
5°	1310	126
15°	1365	385
25°	1229	560
35°	808	497
45°	286	235
55°	87	82
65°	25	27
75°	7	8
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1294.2
2.5°	1299.5
5°	1310.1
7.5°	1324.3
10°	1336.7
12.5°	1352.6
15°	1365.0
17.5°	1365.0
20°	1343.7
22.5°	1296.0
25°	1228.8
27.5°	1149.3
30°	1055.5
32.5°	940.6
35°	808.0
37.5°	664.8
40°	528.7
42.5°	396.1
45°	286.4
47.5°	210.4
50°	155.6
52.5°	113.2
55°	86.6
57.5°	67.2
60°	51.3
62.5°	37.1
65°	24.8
67.5°	15.9
70°	10.6
72.5°	8.8
75°	7.1
77.5°	7.1
80°	5.3
82.5°	5.3
85°	3.5
87.5°	1.8
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)