

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: P643234

Luminaire Tested: ML5615LSVWFL759FS1E - 691WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 691WB - 1500LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1932.0 lumens
Efficiency: N/A
Efficacy: 113.0 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

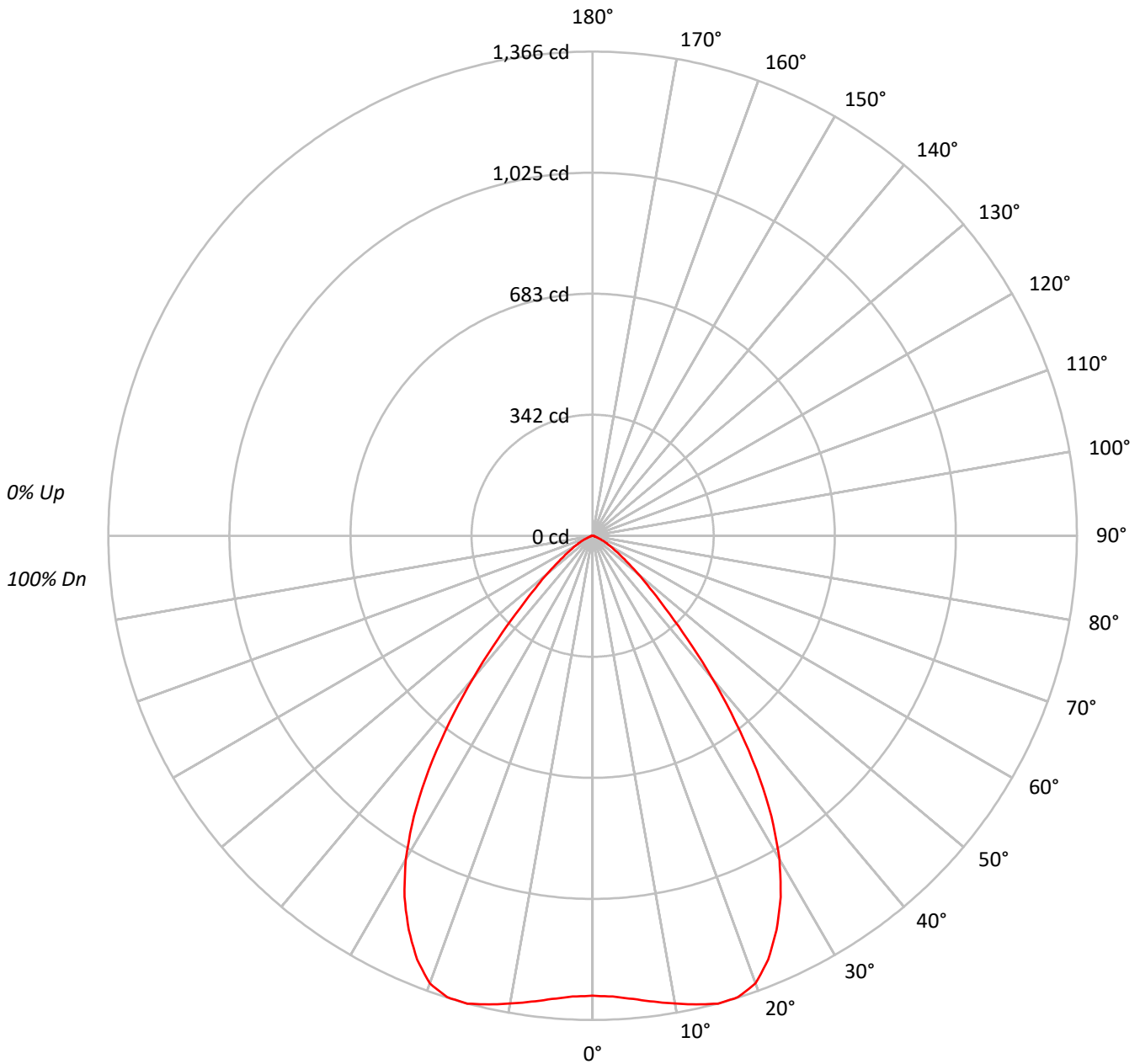
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92				92
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83				83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76				76
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69				69
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63				63
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58				58
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53				53
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49				49
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71135
5°	72182
10°	74592
15°	77554
20°	78383
25°	74212
30°	66694
35°	53947
40°	37449
45°	22475
50°	14319
55°	8955
60°	6008
65°	3904
70°	1988
75°	1123
80°	1105
85°	1132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22475 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	6.5
10°-20°	384.8	19.9
20°-30°	559.5	29.0
30°-40°	495.4	25.6
40°-50°	238.1	12.3
50°-60°	88.6	4.6
60°-70°	30.4	1.6
70°-80°	6.8	0.3
80°-90°	2.4	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°	1070.4	55.4
0°-40°	1565.7	81.0
0°-60°	1892.4	98.0
0°-90°	1932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1298	
5°	1312	126
15°	1366	385
25°	1227	559
35°	806	495
45°	290	238
55°	94	89
65°	30	30
75°	5	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1297.6
2.5°	1301.1
5°	1311.7
7.5°	1325.9
10°	1340.0
12.5°	1354.2
15°	1366.5
17.5°	1364.8
20°	1343.6
22.5°	1294.1
25°	1226.9
27.5°	1149.1
30°	1053.6
32.5°	938.7
35°	806.1
37.5°	662.9
40°	523.3
42.5°	394.2
45°	289.9
47.5°	219.2
50°	167.9
52.5°	123.7
55°	93.7
57.5°	70.7
60°	54.8
62.5°	42.4
65°	30.1
67.5°	17.7
70°	12.4
72.5°	7.1
75°	5.3
77.5°	5.3
80°	3.5
82.5°	3.5
85°	1.8
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)