

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: P643231

Luminaire Tested: ML5615LSVWFL759FS1E - 691WB - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643231
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 - 2700K
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1699.5 lumens
Efficiency: N/A
Efficacy: 99.4 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

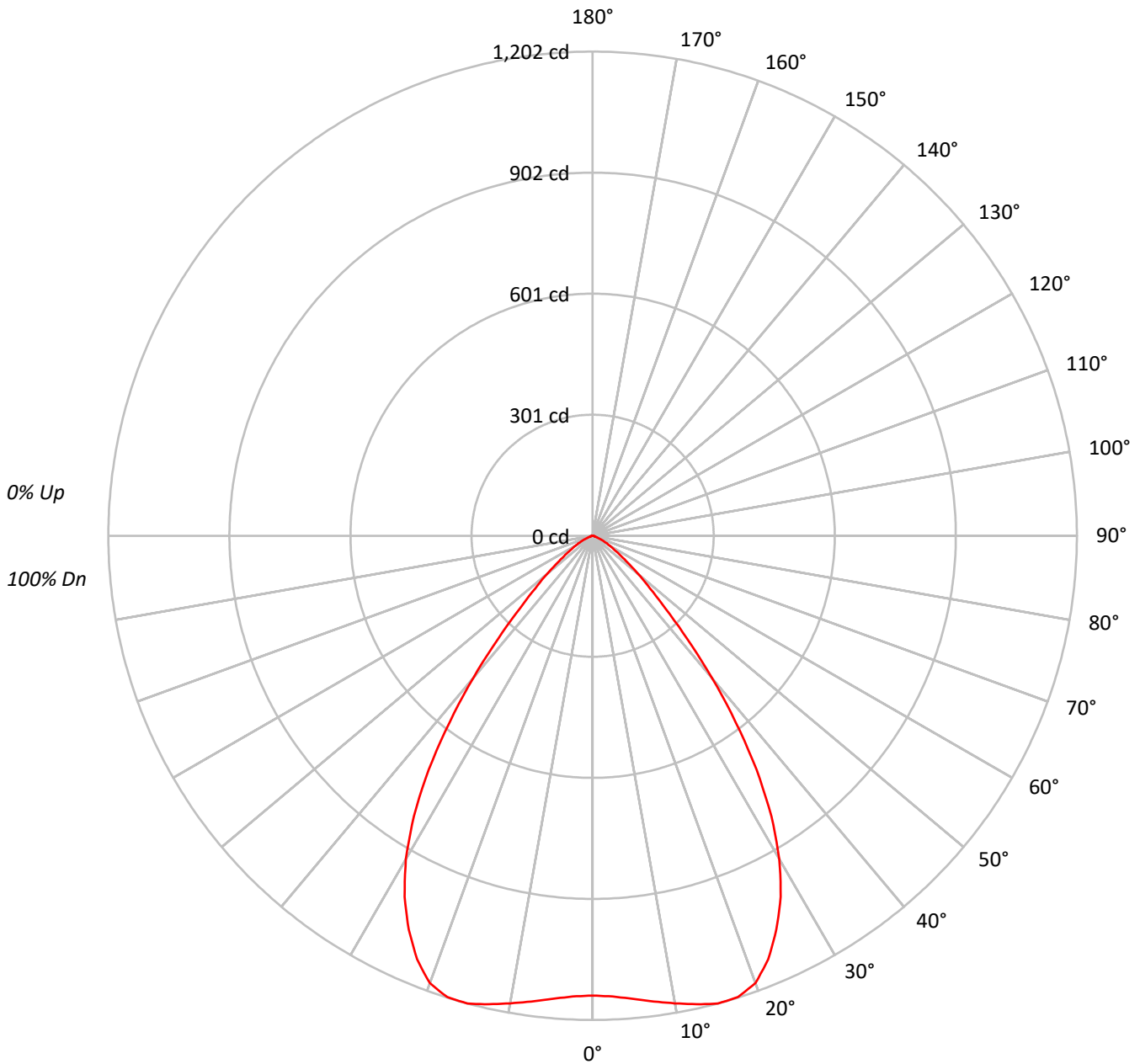
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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	100	100
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92	92	92	92
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83	83	83	83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76	76	76
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69	69	69	69
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63	63	63	63
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58	58	58	58
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49	49	49	49
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45	45	45	45
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42	42	42	42

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62572
5°	63499
10°	65613
15°	68224
20°	68950
25°	65278
30°	58667
35°	47455
40°	32940
45°	19769
50°	12597
55°	7875
60°	5285
65°	3424
70°	1747
75°	996
80°	979
85°	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19769 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	6.5
10°-20°	338.5	19.9
20°-30°	492.1	29.0
30°-40°	435.8	25.6
40°-50°	209.4	12.3
50°-60°	78.0	4.6
60°-70°	26.8	1.6
70°-80°	6.0	0.4
80°-90°	2.1	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°	941.5	55.4
0°-40°	1377.3	81.0
0°-60°	1664.7	97.9
0°-90°	1699.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1699.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1141	
5°	1154	111
15°	1202	338
25°	1079	492
35°	709	436
45°	255	209
55°	82	78
65°	26	27
75°	5	6
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1141.4
2.5°	1144.5
5°	1153.9
7.5°	1166.3
10°	1178.7
12.5°	1191.2
15°	1202.1
17.5°	1200.5
20°	1181.9
22.5°	1138.3
25°	1079.2
27.5°	1010.8
30°	926.8
32.5°	825.7
35°	709.1
37.5°	583.2
40°	460.3
42.5°	346.8
45°	255.0
47.5°	192.8
50°	147.7
52.5°	108.9
55°	82.4
57.5°	62.2
60°	48.2
62.5°	37.3
65°	26.4
67.5°	15.6
70°	10.9
72.5°	6.2
75°	4.7
77.5°	4.7
80°	3.1
82.5°	3.1
85°	1.6
87.5°	1.6
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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