

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: P643235

Luminaire Tested: ML5615LSVWFL759FS1E - 691WB - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643235
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 - 5000K
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

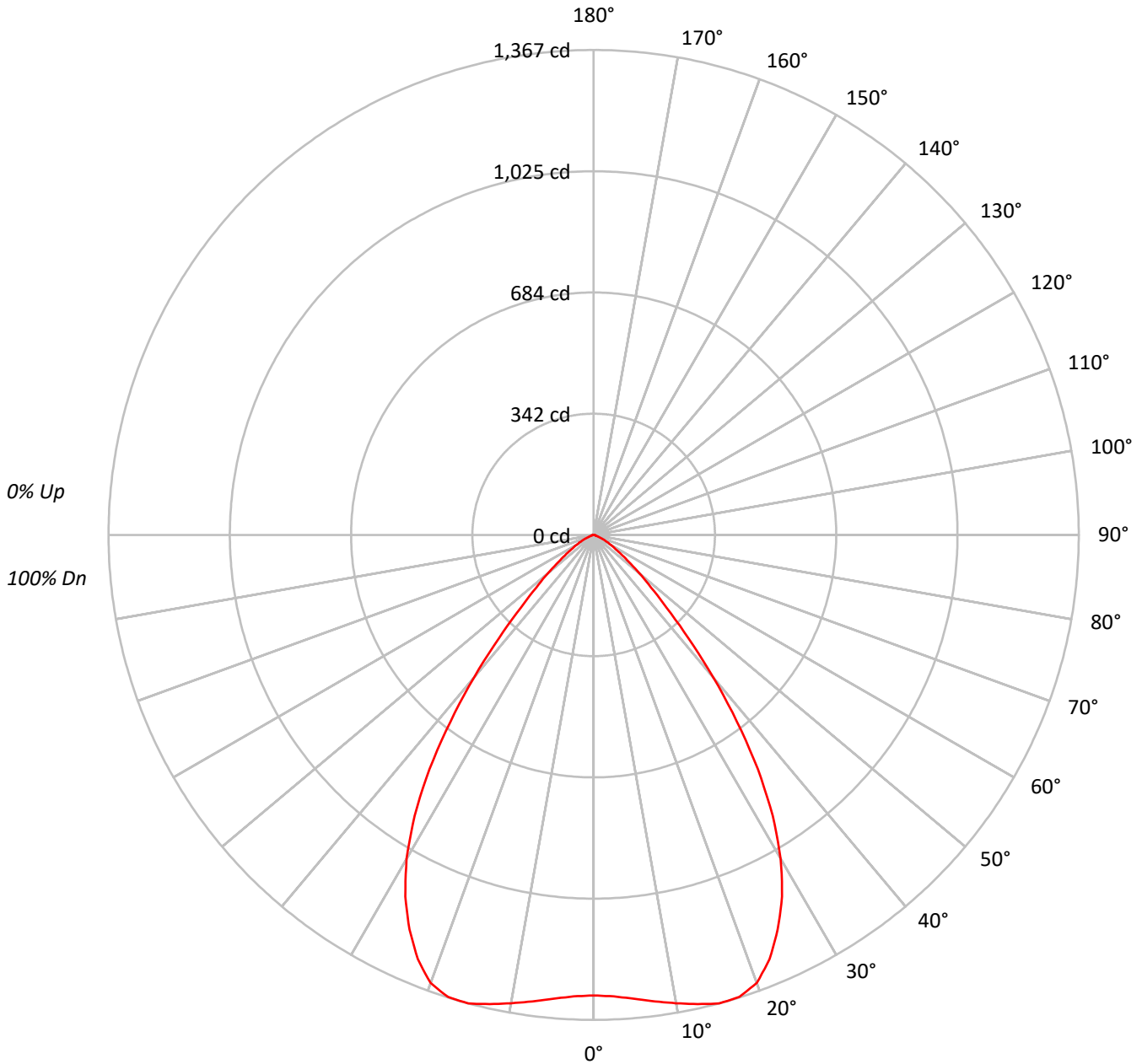
Lumens per Lamp: N/A
Luminaire Lumens: 1932.8 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P643235
CATALOG NUMBER: ML5615LSVWFL759FS1E - 691WB - 1500LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P643235

CATALOG NUMBER: ML5615LSVWFL759FS1E - 691WB - 1500LM - 5000K

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
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°	71162
5°	72210
10°	74620
15°	77588
20°	78413
25°	74236
30°	66719
35°	53967
40°	37463
45°	22483
50°	14328
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: 22483 cd/sqm



TEST NUMBER: P643235

CATALOG NUMBER: ML5615LSVWFL759FS1E - 691WB - 1500LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	6.5
10°-20°	384.9	19.9
20°-30°	559.7	29.0
30°-40°	495.6	25.6
40°-50°	238.2	12.3
50°-60°	88.7	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°	1070.8	55.4
0°-40°	1566.3	81.0
0°-60°	1893.2	98.0
0°-90°	1932.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1298	
5°	1312	126
15°	1367	385
25°	1227	560
35°	806	496
45°	290	238
55°	94	89
65°	30	30
75°	5	7
85°	2	2
90°	0	



TEST NUMBER: P643235

CATALOG NUMBER: ML5615LSVWFL759FS1E - 691WB - 1500LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1298.1
2.5°	1301.6
5°	1312.2
7.5°	1326.4
10°	1340.5
12.5°	1354.7
15°	1367.1
17.5°	1365.3
20°	1344.1
22.5°	1294.6
25°	1227.3
27.5°	1149.5
30°	1054.0
32.5°	939.1
35°	806.4
37.5°	663.2
40°	523.5
42.5°	394.4
45°	290.0
47.5°	219.3
50°	168.0
52.5°	123.8
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)