

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: P643237

Luminaire Tested: ML5615LSVWFL759FS1E - 691WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643237
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 - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1124.2 lumens
Efficiency: N/A
Efficacy: 107.1 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

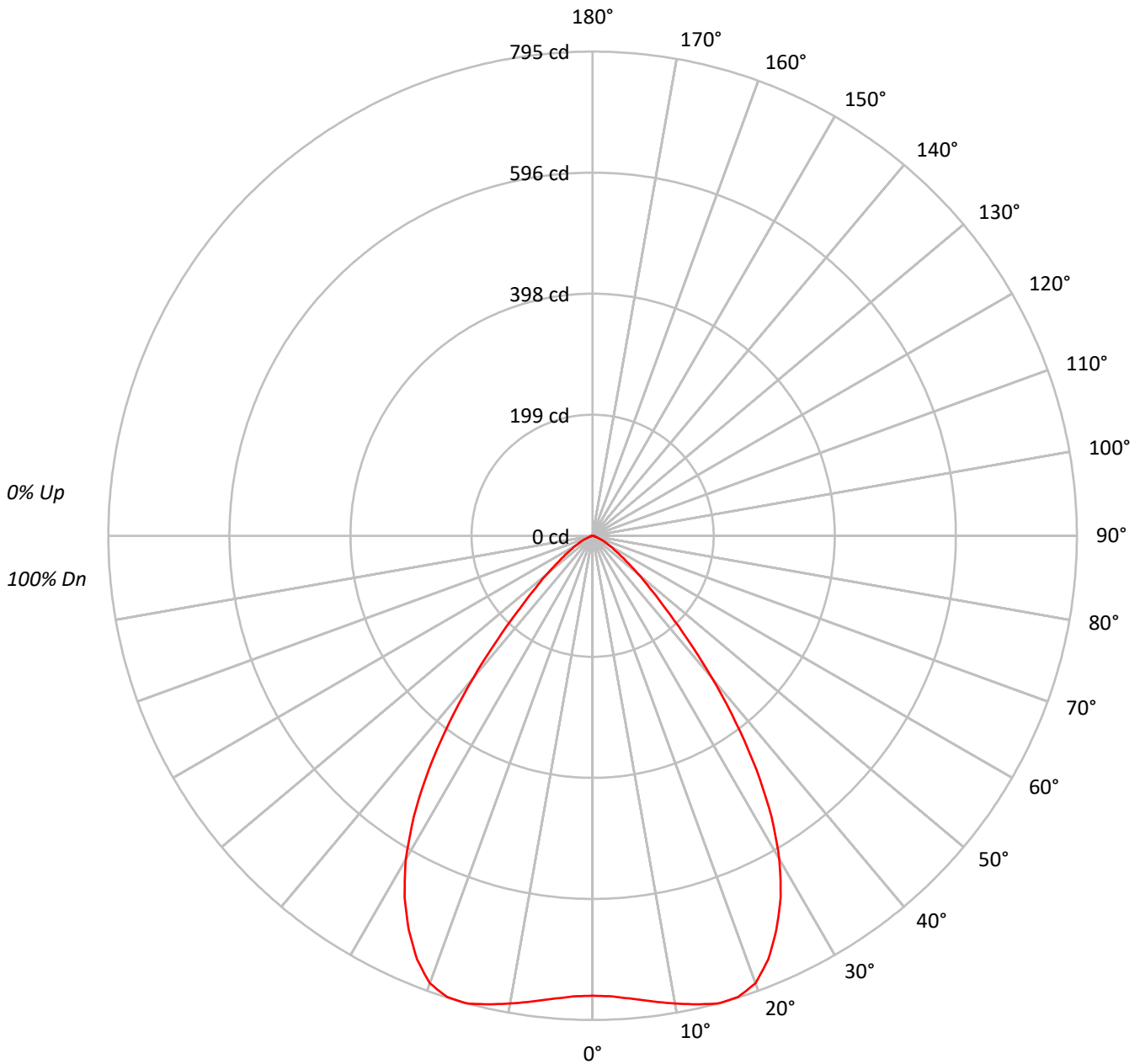
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			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°	41389
5°	42004
10°	43403
15°	45131
20°	45609
25°	43182
30°	38810
35°	31394
40°	21791
45°	13079
50°	8332
55°	5209
60°	3498
65°	2270
70°	1154
75°	657
80°	663
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13079 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	6.5
10°-20°	223.9	19.9
20°-30°	325.5	29.0
30°-40°	288.3	25.6
40°-50°	138.5	12.3
50°-60°	51.6	4.6
60°-70°	17.7	1.6
70°-80°	3.9	0.4
80°-90°	1.4	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°	622.8	55.4
0°-40°	911.1	81.0
0°-60°	1101.2	97.9
0°-90°	1124.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1124.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	755	
5°	763	73
15°	795	224
25°	714	326
35°	469	288
45°	169	139
55°	54	52
65°	18	18
75°	3	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	755.0
2.5°	757.1
5°	763.3
7.5°	771.5
10°	779.7
12.5°	788.0
15°	795.2
17.5°	794.1
20°	781.8
22.5°	753.0
25°	713.9
27.5°	668.6
30°	613.1
32.5°	546.2
35°	469.1
37.5°	385.8
40°	304.5
42.5°	229.4
45°	168.7
47.5°	127.6
50°	97.7
52.5°	72.0
55°	54.5
57.5°	41.1
60°	31.9
62.5°	24.7
65°	17.5
67.5°	10.3
70°	7.2
72.5°	4.1
75°	3.1
77.5°	3.1
80°	2.1
82.5°	2.1
85°	1.0
87.5°	1.0
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)