

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: P643239

Luminaire Tested: ML5615LSVWFL759FS1E - 691WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643239
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 - 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: 1242.5 lumens
Efficiency: N/A
Efficacy: 118.3 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

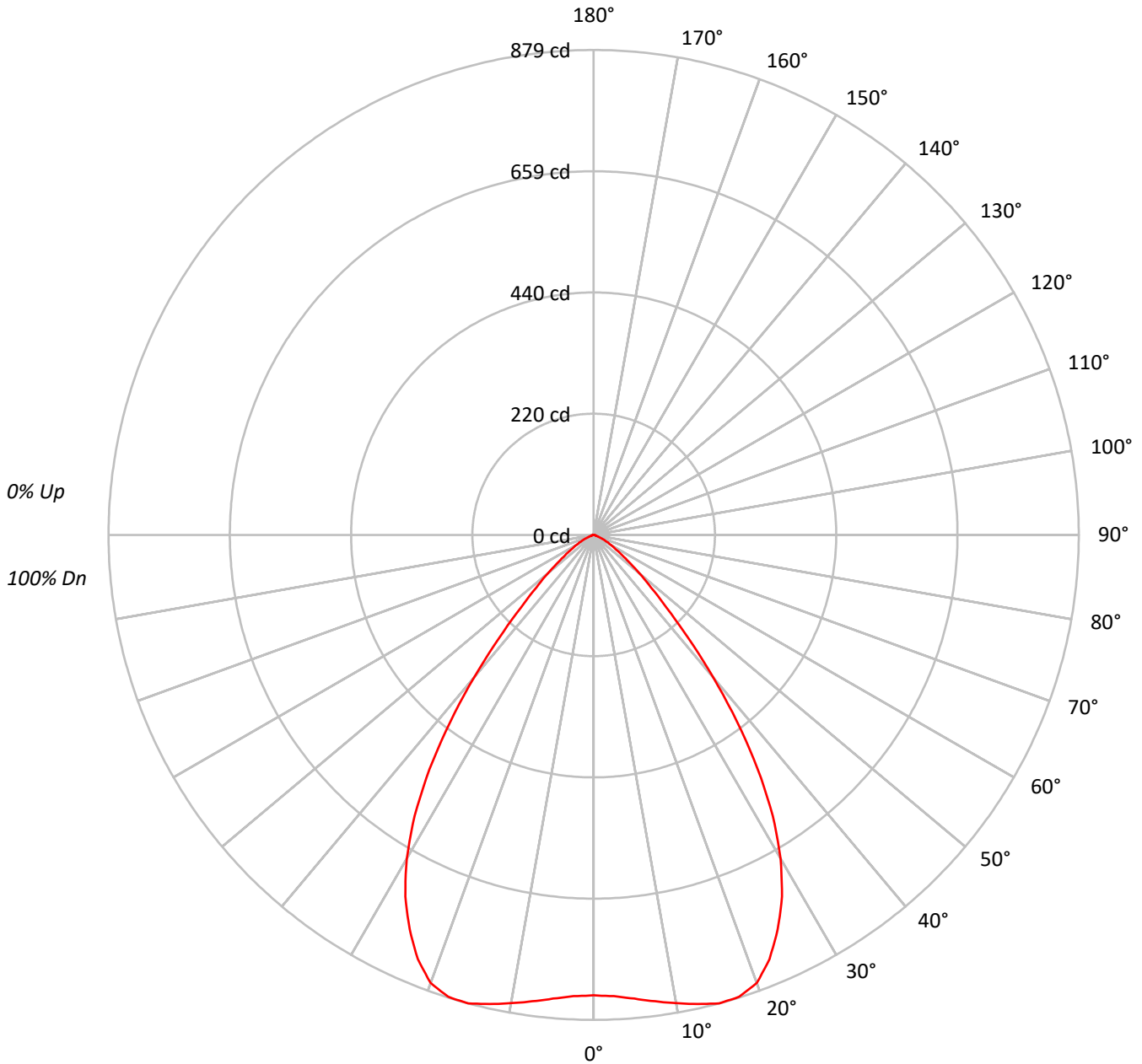
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			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°	45747
5°	46423
10°	47973
15°	49881
20°	50410
25°	47725
30°	42893
35°	34693
40°	24081
45°	14459
50°	9211
55°	5763
60°	3859
65°	2504
70°	1282
75°	720
80°	726
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14459 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	6.5
10°-20°	247.5	19.9
20°-30°	359.8	29.0
30°-40°	318.6	25.6
40°-50°	153.1	12.3
50°-60°	57.0	4.6
60°-70°	19.6	1.6
70°-80°	4.3	0.3
80°-90°	1.5	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°	688.4	55.4
0°-40°	1007.0	81.0
0°-60°	1217.1	98.0
0°-90°	1242.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1242.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	834	
5°	844	81
15°	879	247
25°	789	360
35°	518	319
45°	186	153
55°	60	57
65°	19	20
75°	3	4
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	834.5
2.5°	836.8
5°	843.6
7.5°	852.7
10°	861.8
12.5°	870.9
15°	878.9
17.5°	877.7
20°	864.1
22.5°	832.2
25°	789.0
27.5°	739.0
30°	677.6
32.5°	603.7
35°	518.4
37.5°	426.4
40°	336.5
42.5°	253.5
45°	186.5
47.5°	141.0
50°	108.0
52.5°	79.6
55°	60.3
57.5°	45.5
60°	35.2
62.5°	27.3
65°	19.3
67.5°	11.4
70°	8.0
72.5°	4.5
75°	3.4
77.5°	3.4
80°	2.3
82.5°	2.3
85°	1.1
87.5°	1.1
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)