

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: P643049

Luminaire Tested: ML5615LSVWFL759FS1E - 591WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 591WB - 1200LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1564.3 lumens
Efficiency: N/A
Efficacy: 116.7 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

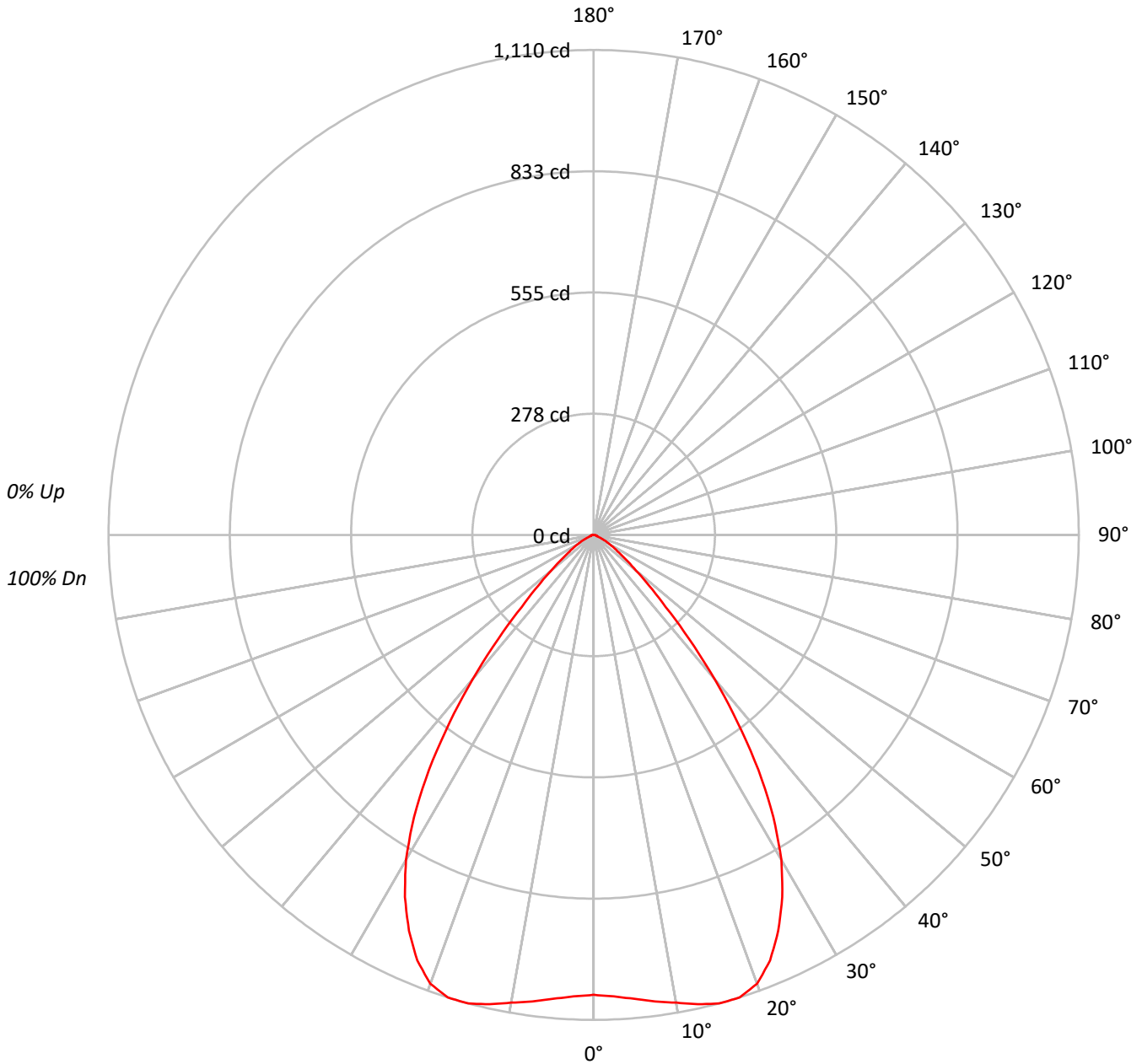
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57709
5°	58645
10°	60520
15°	63008
20°	63764
25°	60457
30°	54350
35°	43982
40°	30772
45°	18064
50°	10797
55°	6738
60°	4572
65°	2607
70°	1378
75°	1228
80°	1357
85°	1824

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18064 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.4	6.5
10°-20°	312.7	20.0
20°-30°	455.5	29.1
30°-40°	404.1	25.8
40°-50°	191.3	12.2
50°-60°	66.9	4.3
60°-70°	21.7	1.4
70°-80°	6.7	0.4
80°-90°	2.9	0.2
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°	870.7	55.7
0°-40°	1274.9	81.5
0°-60°	1533.0	98.0
0°-90°	1564.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1564.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1053	
5°	1066	102
15°	1110	313
25°	1000	456
35°	657	404
45°	233	191
55°	70	67
65°	20	22
75°	6	7
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1052.7
2.5°	1057.0
5°	1065.7
7.5°	1077.2
10°	1087.2
12.5°	1100.2
15°	1110.2
17.5°	1110.2
20°	1093.0
22.5°	1054.2
25°	999.5
27.5°	934.8
30°	858.6
32.5°	765.1
35°	657.2
37.5°	540.7
40°	430.0
42.5°	322.1
45°	233.0
47.5°	171.1
50°	126.6
52.5°	92.0
55°	70.5
57.5°	54.6
60°	41.7
62.5°	30.2
65°	20.1
67.5°	12.9
70°	8.6
72.5°	7.2
75°	5.8
77.5°	5.8
80°	4.3
82.5°	4.3
85°	2.9
87.5°	1.4
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)