

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: P643549

Luminaire Tested: ML5615LSVWFL9FS1E - 594WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-101)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 594WB - 1500LM - 4000K
Description: ML56 RR, MILKY OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1939.1 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

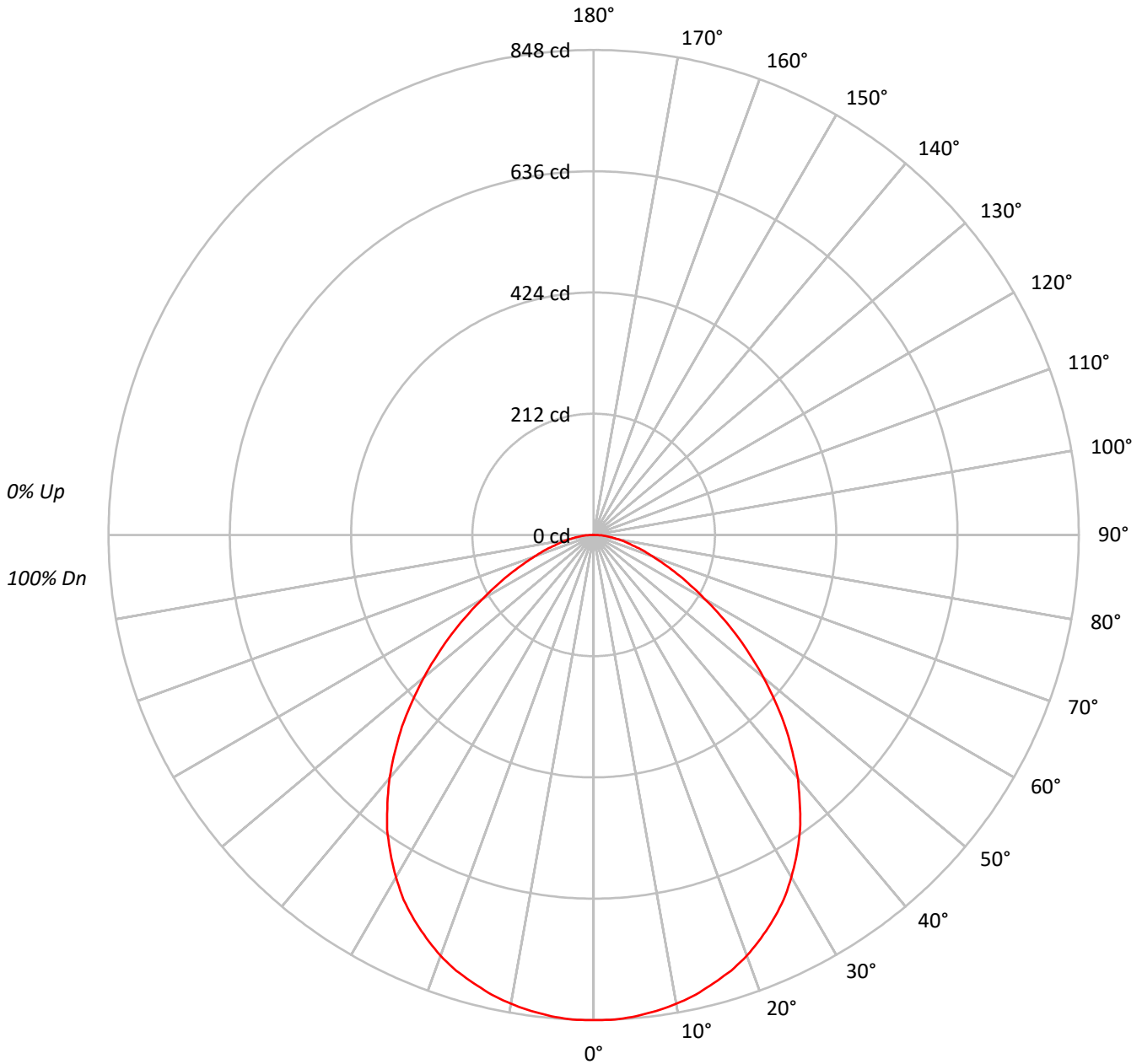
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			86
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74			74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64			64
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56			56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	60	55	51	49			49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43			43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39			39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35			35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31			31
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29			29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	66973
5°	66952
10°	66732
15°	66304
20°	65778
25°	64664
30°	62996
35°	60635
40°	57193
45°	52884
50°	47540
55°	41839
60°	35444
65°	30036
70°	25297
75°	21564
80°	19275
85°	17571

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 52884 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	4.1
10°-20°	229.0	11.8
20°-30°	341.6	17.6
30°-40°	391.8	20.2
40°-50°	363.9	18.8
50°-60°	271.8	14.0
60°-70°	160.9	8.3
70°-80°	77.3	4.0
80°-90°	22.6	1.2
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°	650.8	33.6
0°-40°	1042.6	53.8
0°-60°	1678.3	86.5
0°-90°	1939.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1939.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	848	
5°	845	80
15°	811	229
25°	742	342
35°	629	392
45°	474	364
55°	304	272
65°	161	161
75°	71	77
85°	19	23
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	848.4
2.5°	848.4
5°	844.9
7.5°	839.6
10°	832.5
12.5°	823.7
15°	811.3
17.5°	798.9
20°	783.0
22.5°	763.6
25°	742.4
27.5°	719.4
30°	691.1
32.5°	661.1
35°	629.2
37.5°	592.1
40°	555.0
42.5°	514.4
45°	473.7
47.5°	429.5
50°	387.1
52.5°	344.7
55°	304.0
57.5°	263.4
60°	224.5
62.5°	190.9
65°	160.8
67.5°	132.6
70°	109.6
72.5°	90.1
75°	70.7
77.5°	56.6
80°	42.4
82.5°	30.0
85°	19.4
87.5°	12.4
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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