

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: P643507

Luminaire Tested: ML5615LSVWFL9FS1E - 593WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-97)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 593WB - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 996.4 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

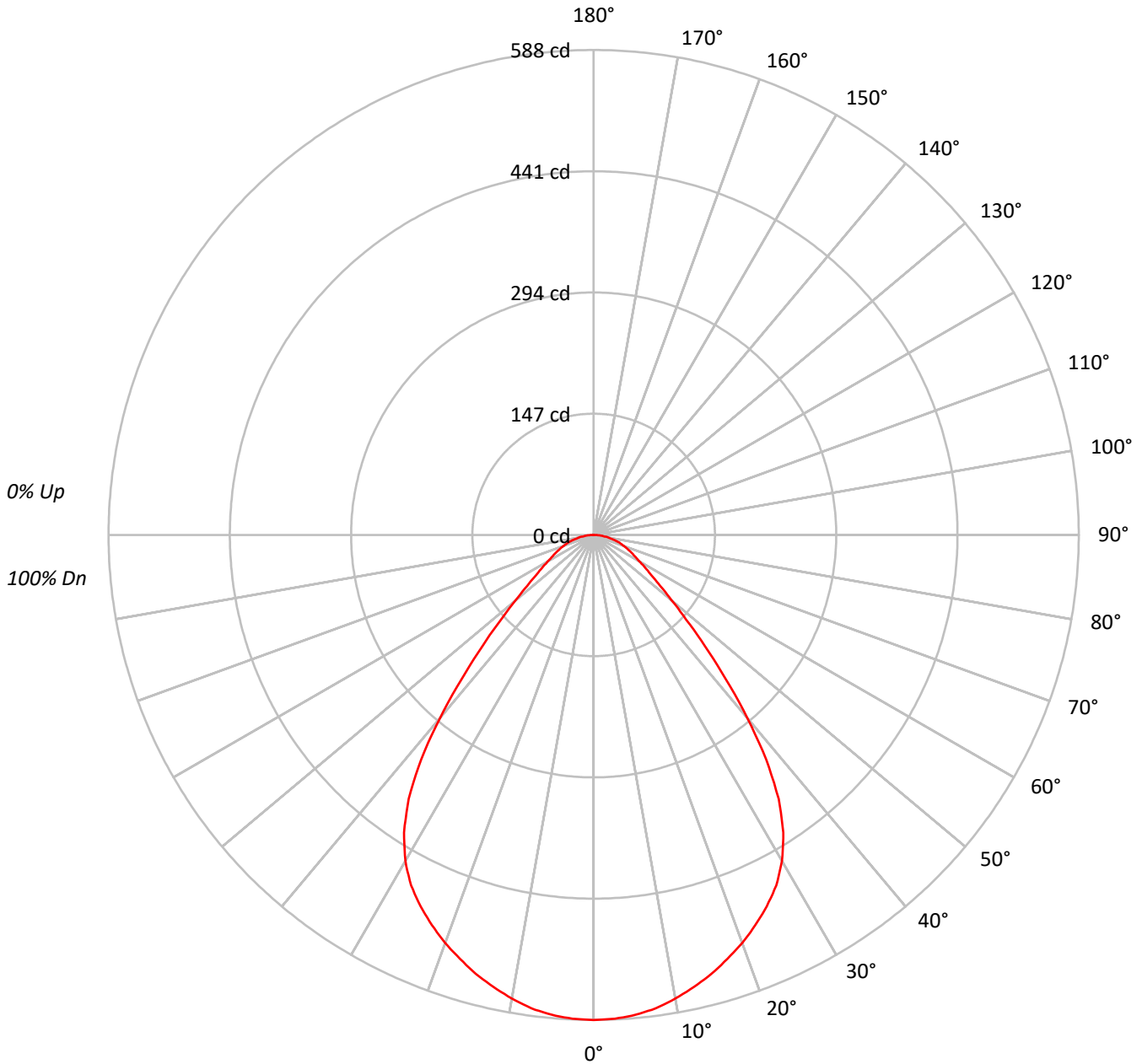
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69			69
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56			56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50			50
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	51	48	46			46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42			42
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38			38
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35			35

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	46433
5°	46286
10°	45755
15°	45047
20°	44230
25°	43263
30°	41621
35°	37661
40°	29885
45°	21245
50°	15155
55°	11754
60°	10073
65°	9414
70°	9025
75°	8784
80°	8410
85°	7427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21245 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	5.6
10°-20°	155.3	15.6
20°-30°	228.1	22.9
30°-40°	239.1	24.0
40°-50°	150.3	15.1
50°-60°	79.1	7.9
60°-70°	50.1	5.0
70°-80°	30.1	3.0
80°-90°	8.9	0.9
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°	438.8	44.0
0°-40°	677.9	68.0
0°-60°	907.3	91.1
0°-90°	996.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	996.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	588	
5°	584	55
15°	551	155
25°	497	228
35°	391	239
45°	190	150
55°	85	79
65°	50	50
75°	29	30
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	588.2
2.5°	587.2
5°	584.1
7.5°	579.0
10°	570.8
12.5°	561.5
15°	551.2
17.5°	538.9
20°	526.5
22.5°	512.1
25°	496.7
27.5°	479.2
30°	456.6
32.5°	427.8
35°	390.8
37.5°	343.5
40°	290.0
42.5°	236.5
45°	190.3
47.5°	152.2
50°	123.4
52.5°	101.8
55°	85.4
57.5°	74.0
60°	63.8
62.5°	56.6
65°	50.4
67.5°	44.2
70°	39.1
72.5°	33.9
75°	28.8
77.5°	22.6
80°	18.5
82.5°	12.3
85°	8.2
87.5°	3.1
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)