

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: P643508

Luminaire Tested: ML5615LSVWFL9FS1E - 593WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643508
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 - 3500K
Description: ML56 RR, MILKY OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1023.6 lumens
Efficiency: N/A
Efficacy: 97.5 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

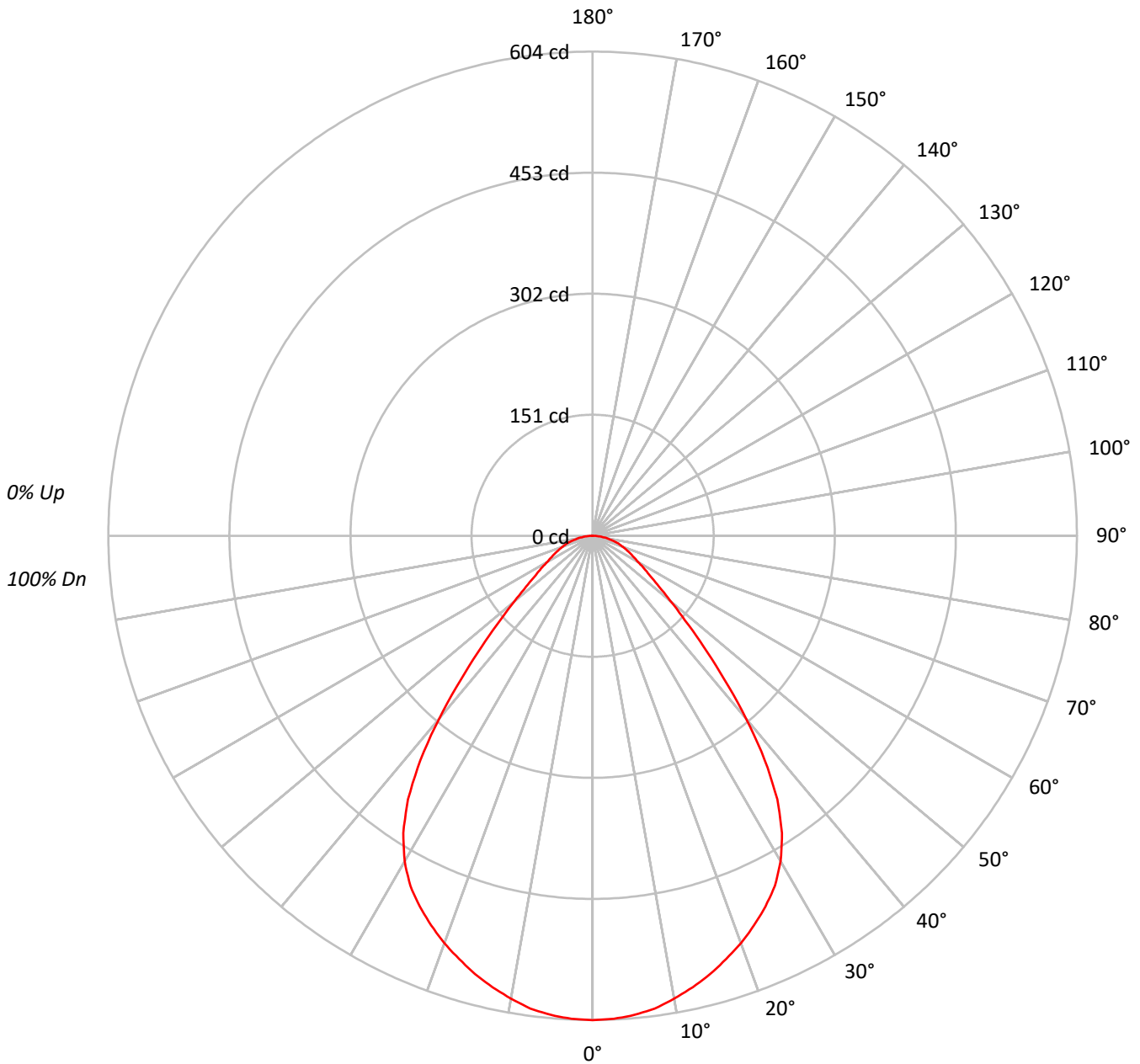
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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																			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62																			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42																			
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	47704
5°	47545
10°	46997
15°	46273
20°	45439
25°	44439
30°	42751
35°	38683
40°	30699
45°	21814
50°	15572
55°	12070
60°	10341
65°	9676
70°	9255
75°	9028
80°	8637
85°	7699

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21814 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	5.6
10°-20°	159.5	15.6
20°-30°	234.4	22.9
30°-40°	245.6	24.0
40°-50°	154.4	15.1
50°-60°	81.3	7.9
60°-70°	51.5	5.0
70°-80°	30.9	3.0
80°-90°	9.2	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°	450.7	44.0
0°-40°	696.3	68.0
0°-60°	932.0	91.0
0°-90°	1023.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1023.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	604	
5°	600	57
15°	566	160
25°	510	234
35°	401	246
45°	195	154
55°	88	81
65°	52	51
75°	30	31
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	604.3
2.5°	603.2
5°	600.0
7.5°	594.8
10°	586.3
12.5°	576.8
15°	566.2
17.5°	553.6
20°	540.9
22.5°	526.1
25°	510.2
27.5°	492.3
30°	469.0
32.5°	439.5
35°	401.4
37.5°	352.8
40°	297.9
42.5°	243.0
45°	195.4
47.5°	156.3
50°	126.8
52.5°	104.6
55°	87.7
57.5°	76.1
60°	65.5
62.5°	58.1
65°	51.8
67.5°	45.4
70°	40.1
72.5°	34.9
75°	29.6
77.5°	23.2
80°	19.0
82.5°	12.7
85°	8.5
87.5°	3.2
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)