

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: P643568

Luminaire Tested: ML5615LSVWFL9FS1E - 596WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-104)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 596WB - 900LM - 3500K
Description: ML56 RR, MILKY OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

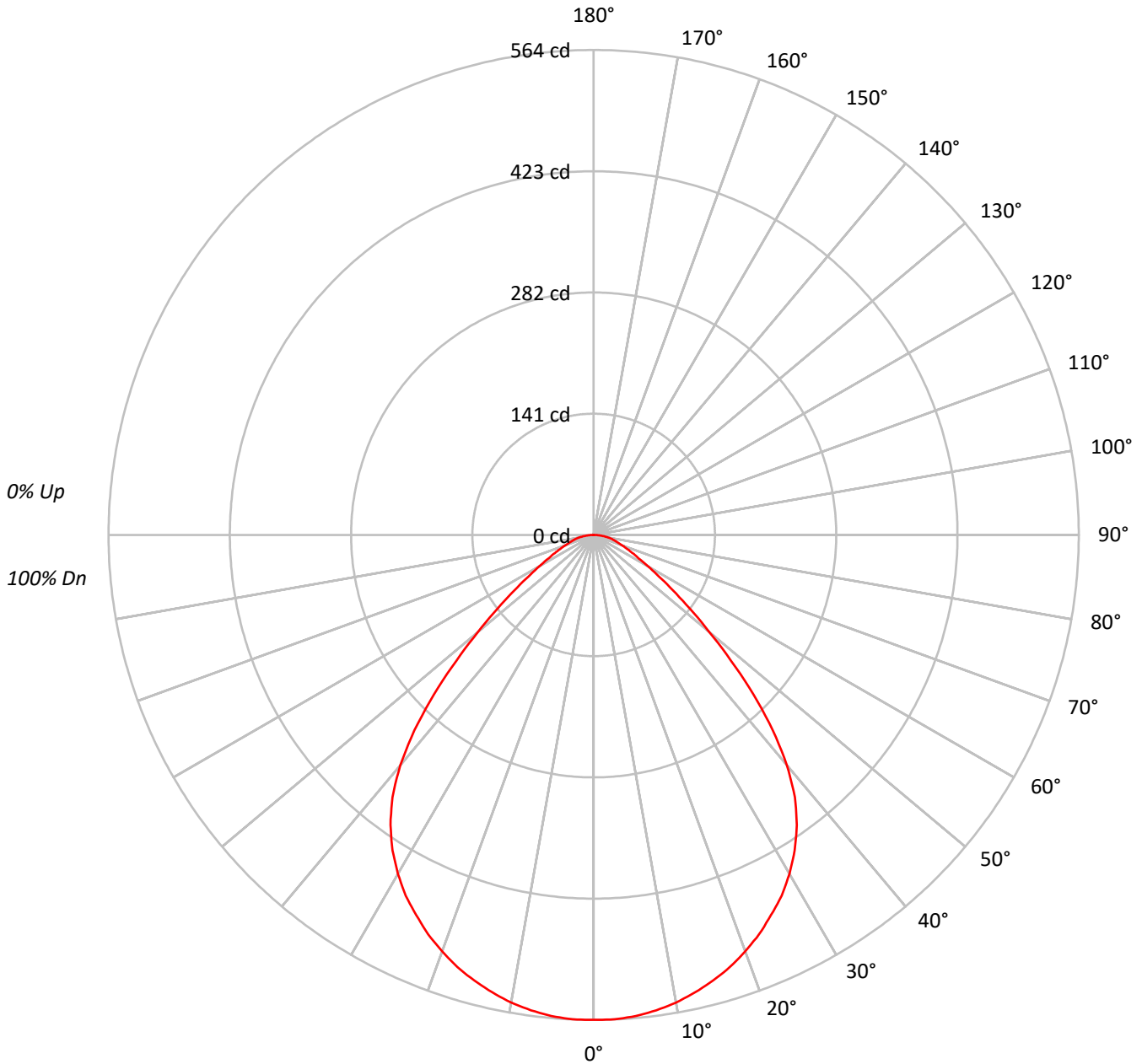
Lumens per Lamp: N/A
Luminaire Lumens: 1075.6 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.24
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	98	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			78
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69			69
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61			61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54			54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49			49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44			44
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40			40
9	63	51	44	39	62	50	43	39	49	43	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44515
5°	44518
10°	44272
15°	43846
20°	43289
25°	42497
30°	41484
35°	39685
40°	36016
45°	29361
50°	21529
55°	15401
60°	11510
65°	9265
70°	8032
75°	7717
80°	7683
85°	6703

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29361 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.3	5.0
10°-20°	151.3	14.1
20°-30°	224.7	20.9
30°-40°	255.3	23.7
40°-50°	201.5	18.7
50°-60°	103.7	9.6
60°-70°	50.3	4.7
70°-80°	26.9	2.5
80°-90°	8.6	0.8
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°	429.3	39.9
0°-40°	684.6	63.6
0°-60°	989.8	92.0
0°-90°	1075.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1075.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	564	
5°	562	53
15°	536	151
25°	488	225
35°	412	255
45°	263	201
55°	112	104
65°	50	50
75°	25	27
85°	7	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	563.9
2.5°	563.9
5°	561.8
7.5°	557.6
10°	552.3
12.5°	544.9
15°	536.5
17.5°	527.0
20°	515.3
22.5°	502.7
25°	487.9
27.5°	473.1
30°	455.1
32.5°	435.1
35°	411.8
37.5°	384.4
40°	349.5
42.5°	308.4
45°	263.0
47.5°	216.5
50°	175.3
52.5°	140.5
55°	111.9
57.5°	89.8
60°	72.9
62.5°	59.1
65°	49.6
67.5°	41.2
70°	34.8
72.5°	29.6
75°	25.3
77.5°	21.1
80°	16.9
82.5°	12.7
85°	7.4
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)