

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: P643453

Luminaire Tested: ML5615LSVWFL9FS1E - 593BB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-98)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 593BB - 1200LM - 3500K
Description: ML56 RR, MILKY OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

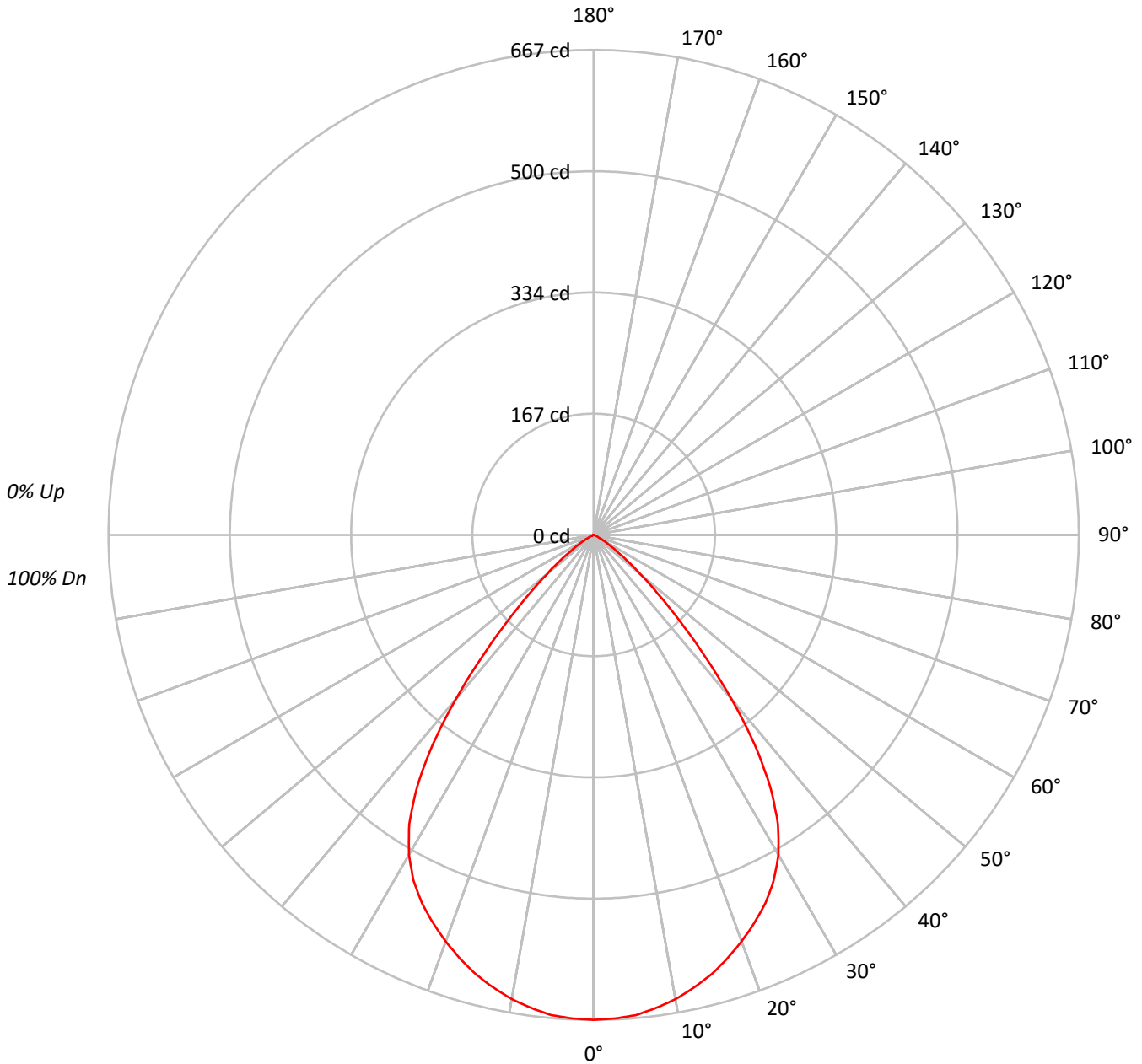
Lumens per Lamp: N/A
Luminaire Lumens: 930.7 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.11
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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			100																
1	113	110	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84																
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76			76																
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			69																
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63			63																
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58			58																
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53			53																
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49			49																
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45			45																
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36565
5°	36485
10°	36088
15°	35505
20°	34700
25°	33794
30°	32151
35°	28355
40°	21140
45°	12955
50°	7181
55°	3575
60°	1612
65°	519
70°	208
75°	275
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12955 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	6.7
10°-20°	176.1	18.9
20°-30°	256.1	27.5
30°-40°	258.2	27.7
40°-50°	133.9	14.4
50°-60°	37.2	4.0
60°-70°	5.6	0.6
70°-80°	0.9	0.1
80°-90°	0.0	0.0
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°	495.0	53.2
0°-40°	753.2	80.9
0°-60°	924.3	99.3
0°-90°	930.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	930.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	667	
5°	663	63
15°	626	176
25°	559	256
35°	424	258
45°	167	134
55°	37	37
65°	4	6
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	667.0
2.5°	665.7
5°	663.0
7.5°	656.3
10°	648.3
12.5°	637.6
15°	625.6
17.5°	610.9
20°	594.8
22.5°	577.4
25°	558.7
27.5°	536.0
30°	507.9
32.5°	471.8
35°	423.7
37.5°	363.6
40°	295.4
42.5°	225.9
45°	167.1
47.5°	120.3
50°	84.2
52.5°	57.5
55°	37.4
57.5°	24.1
60°	14.7
62.5°	8.0
65°	4.0
67.5°	2.7
70°	1.3
72.5°	1.3
75°	1.3
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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