

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: P643414

Luminaire Tested: ML5615LSVWFL9FS1E - 592H - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-95)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 592H - 1500LM - 4000K
Description: ML56 RR, MILKY OPTIC, 5" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

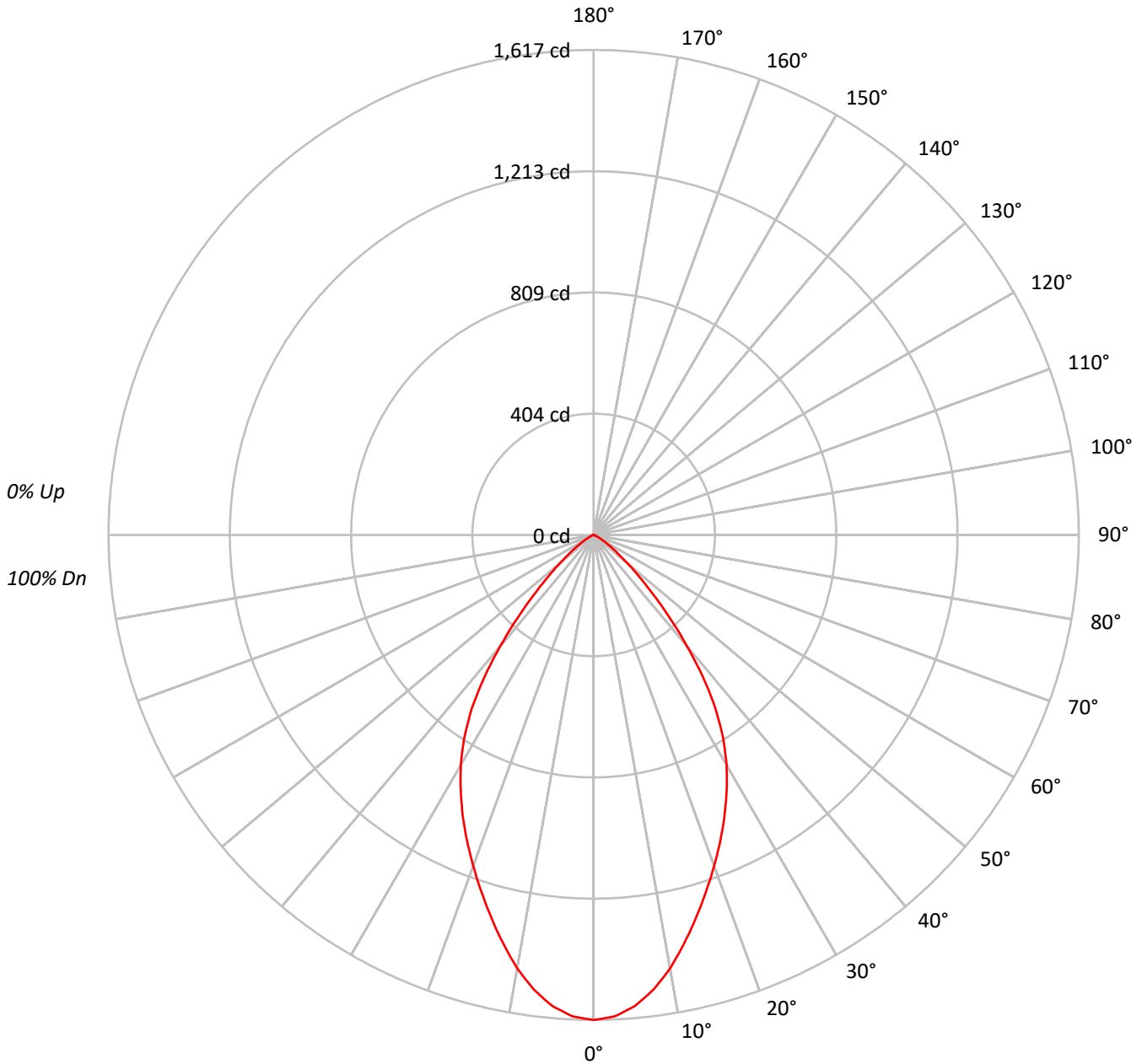
Lumens per Lamp: N/A
Luminaire Lumens: 1733.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.97
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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									
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	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92																
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			84																
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77			77																
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71			71																
5	89	80	73	68	87	79	73	68	77	72	68	75	71	67	74	70	66	65			65																
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	64	61	60			60																
7	79	69	62	58	78	68	62	57	67	61	57	66	61	57	64	60	56	55			55																
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51			51																
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49	47			47																
10	67	56	50	46	66	56	50	46	55	50	46	54	49	46	54	49	45	44			44																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	127679
5°	124950
10°	117609
15°	107911
20°	98599
25°	89915
30°	80725
35°	68306
40°	49907
45°	31181
50°	17795
55°	9730
60°	5021
65°	2316
70°	1223
75°	549
80°	818
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31181 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	8.5
10°-20°	370.0	21.4
20°-30°	473.4	27.3
30°-40°	434.1	25.0
40°-50°	223.3	12.9
50°-60°	68.0	3.9
60°-70°	14.1	0.8
70°-80°	2.8	0.2
80°-90°	0.2	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°	990.5	57.2
0°-40°	1424.5	82.2
0°-60°	1715.9	99.0
0°-90°	1733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1733.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1617	
5°	1577	147
15°	1320	370
25°	1032	473
35°	709	434
45°	279	223
55°	71	68
65°	12	14
75°	2	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1617.4
2.5°	1606.8
5°	1576.8
7.5°	1529.0
10°	1467.2
12.5°	1394.7
15°	1320.4
17.5°	1246.2
20°	1173.7
22.5°	1103.0
25°	1032.3
27.5°	959.8
30°	885.6
32.5°	802.5
35°	708.8
37.5°	599.2
40°	484.3
42.5°	374.7
45°	279.3
47.5°	203.3
50°	144.9
52.5°	100.8
55°	70.7
57.5°	47.7
60°	31.8
62.5°	19.4
65°	12.4
67.5°	7.1
70°	5.3
72.5°	3.5
75°	1.8
77.5°	1.8
80°	1.8
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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