

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: P643409

Luminaire Tested: ML5615LSVWFL9FS1E - 592H - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643409
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 - 1200LM - 4000K
Description: ML56 RR, MILKY OPTIC, 5" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

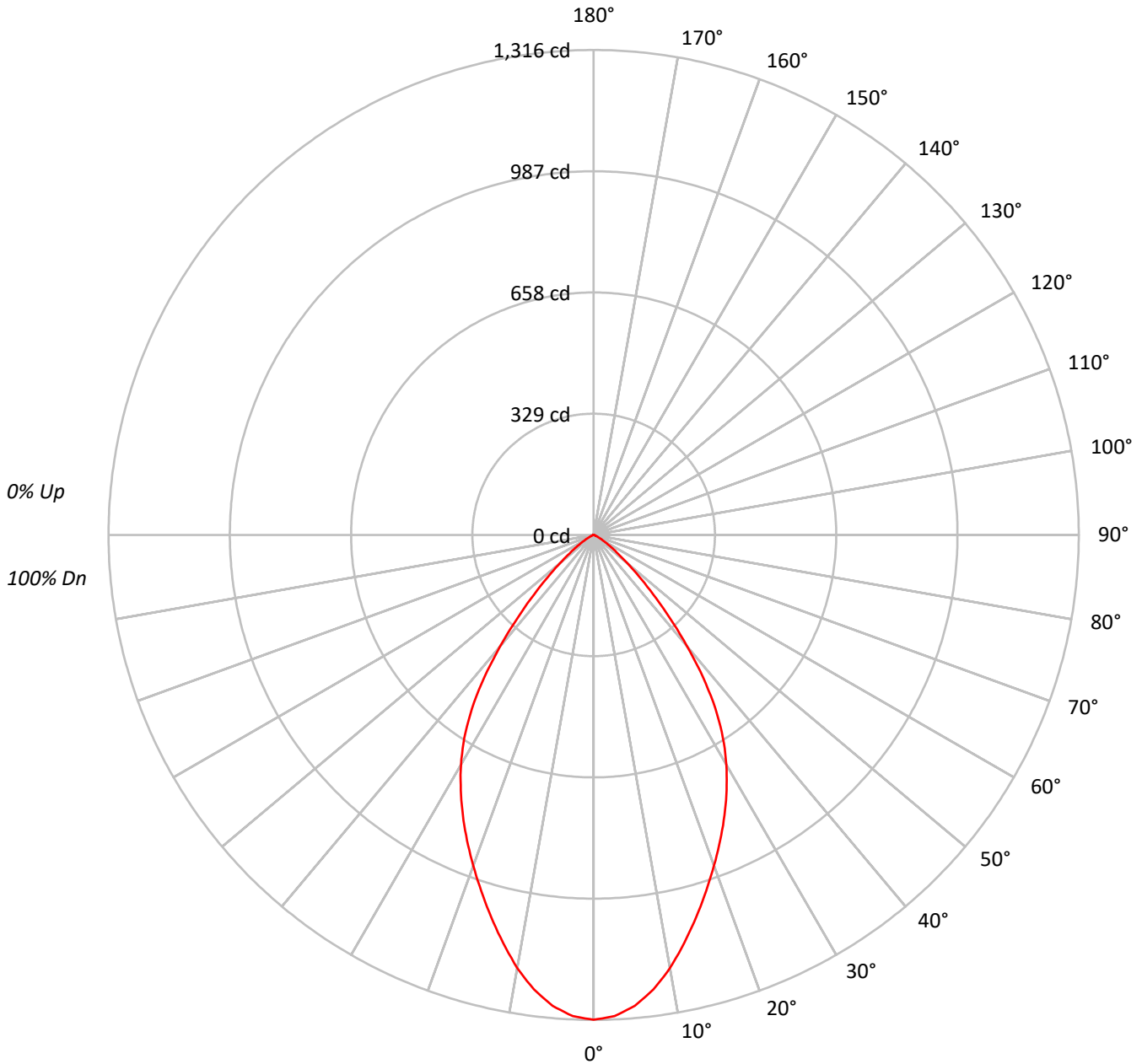
Lumens per Lamp: N/A
Luminaire Lumens: 1409.6 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.97
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	103855
5°	101628
10°	95661
15°	87773
20°	80202
25°	73139
30°	65658
35°	55566
40°	40602
45°	25364
50°	14479
55°	7914
60°	4089
65°	1887
70°	992
75°	427
80°	636
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25364 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	8.5
10°-20°	301.0	21.4
20°-30°	385.1	27.3
30°-40°	353.1	25.0
40°-50°	181.6	12.9
50°-60°	55.3	3.9
60°-70°	11.5	0.8
70°-80°	2.2	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°	805.6	57.2
0°-40°	1158.7	82.2
0°-60°	1395.7	99.0
0°-90°	1409.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1409.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1316	
5°	1282	120
15°	1074	301
25°	840	385
35°	577	353
45°	227	182
55°	58	55
65°	10	11
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1315.6
2.5°	1307.0
5°	1282.5
7.5°	1243.7
10°	1193.4
12.5°	1134.4
15°	1074.0
17.5°	1013.6
20°	954.7
22.5°	897.2
25°	839.7
27.5°	780.7
30°	720.3
32.5°	652.8
35°	576.6
37.5°	487.4
40°	394.0
42.5°	304.8
45°	227.2
47.5°	165.3
50°	117.9
52.5°	82.0
55°	57.5
57.5°	38.8
60°	25.9
62.5°	15.8
65°	10.1
67.5°	5.8
70°	4.3
72.5°	2.9
75°	1.4
77.5°	1.4
80°	1.4
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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