

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: P641602

Luminaire Tested: ML5612LSVWFL97FS1E - 592H - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641602
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: ML5612LSVWFL97FS1E - 592H - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

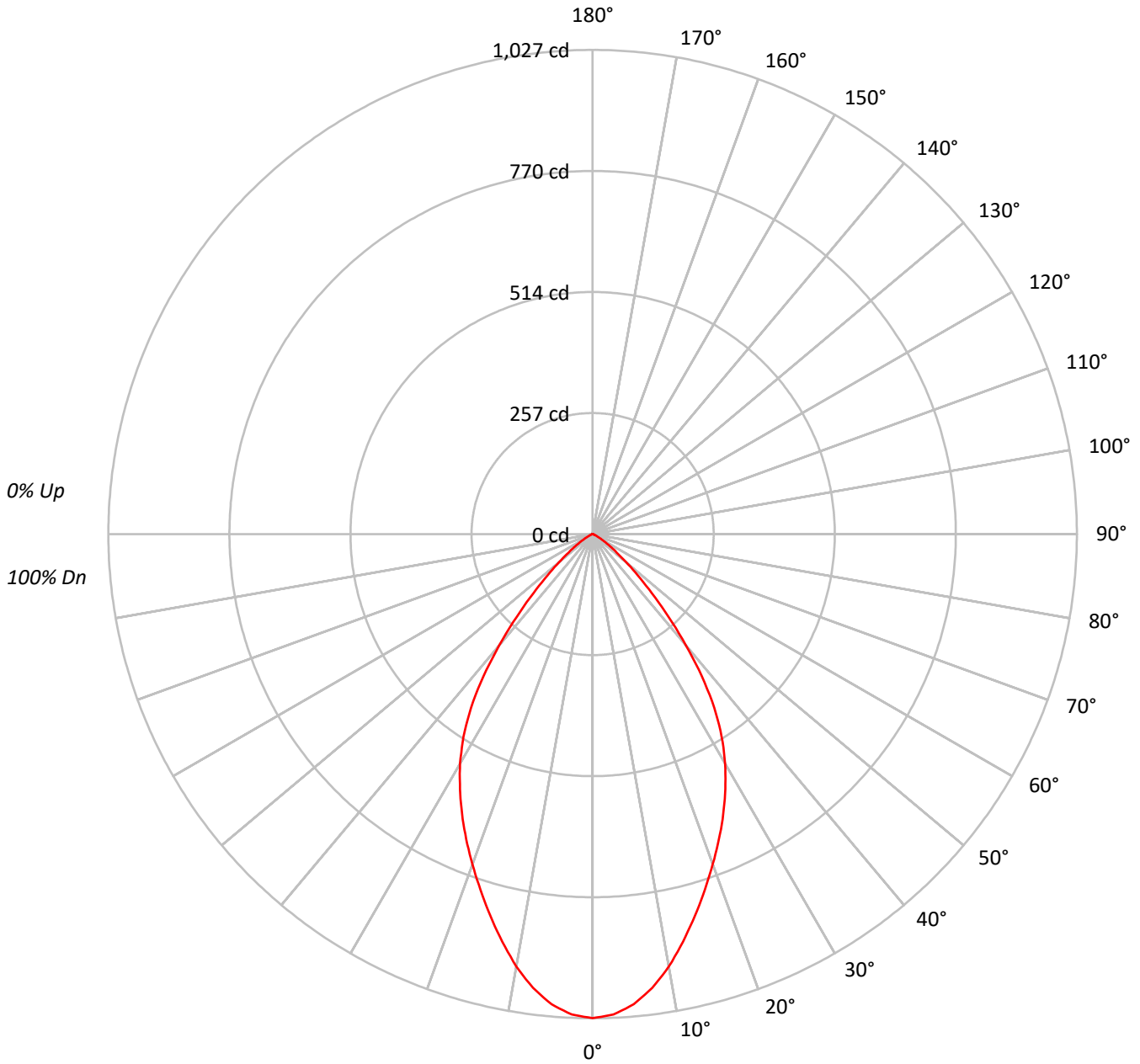
Lumens per Lamp: N/A
Luminaire Lumens: 1100.2 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.97
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71
5	89	80	73	68	87	79	73	68	77	72	68	75	71	67	74	70	66	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	64	61	60
7	79	69	62	58	78	68	62	57	67	61	57	66	61	57	64	60	56	55
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49	47
10	67	56	50	46	66	56	50	46	55	50	46	54	49	46	54	49	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	81057
5°	79322
10°	74660
15°	68511
20°	62594
25°	57086
30°	51246
35°	43366
40°	31688
45°	19794
50°	11299
55°	6180
60°	3189
65°	1476
70°	785
75°	336
80°	500
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19794 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	8.5
10°-20°	234.9	21.4
20°-30°	300.5	27.3
30°-40°	275.6	25.0
40°-50°	141.8	12.9
50°-60°	43.2	3.9
60°-70°	9.0	0.8
70°-80°	1.7	0.2
80°-90°	0.1	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°	628.8	57.2
0°-40°	904.4	82.2
0°-60°	1089.3	99.0
0°-90°	1100.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1100.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1027	
5°	1001	93
15°	838	235
25°	655	301
35°	450	276
45°	177	142
55°	45	43
65°	8	9
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1026.8
2.5°	1020.1
5°	1001.0
7.5°	970.7
10°	931.4
12.5°	885.4
15°	838.3
17.5°	791.1
20°	745.1
22.5°	700.2
25°	655.4
27.5°	609.3
30°	562.2
32.5°	509.5
35°	450.0
37.5°	380.4
40°	307.5
42.5°	237.9
45°	177.3
47.5°	129.1
50°	92.0
52.5°	64.0
55°	44.9
57.5°	30.3
60°	20.2
62.5°	12.3
65°	7.9
67.5°	4.5
70°	3.4
72.5°	2.2
75°	1.1
77.5°	1.1
80°	1.1
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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(END OF REPORT)