

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: P641759

Luminaire Tested: ML5612LSVWFL97FS1E - 691WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-105)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 691WB - 1200LM - 4000K
Description: ML56 RR, MILKY OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

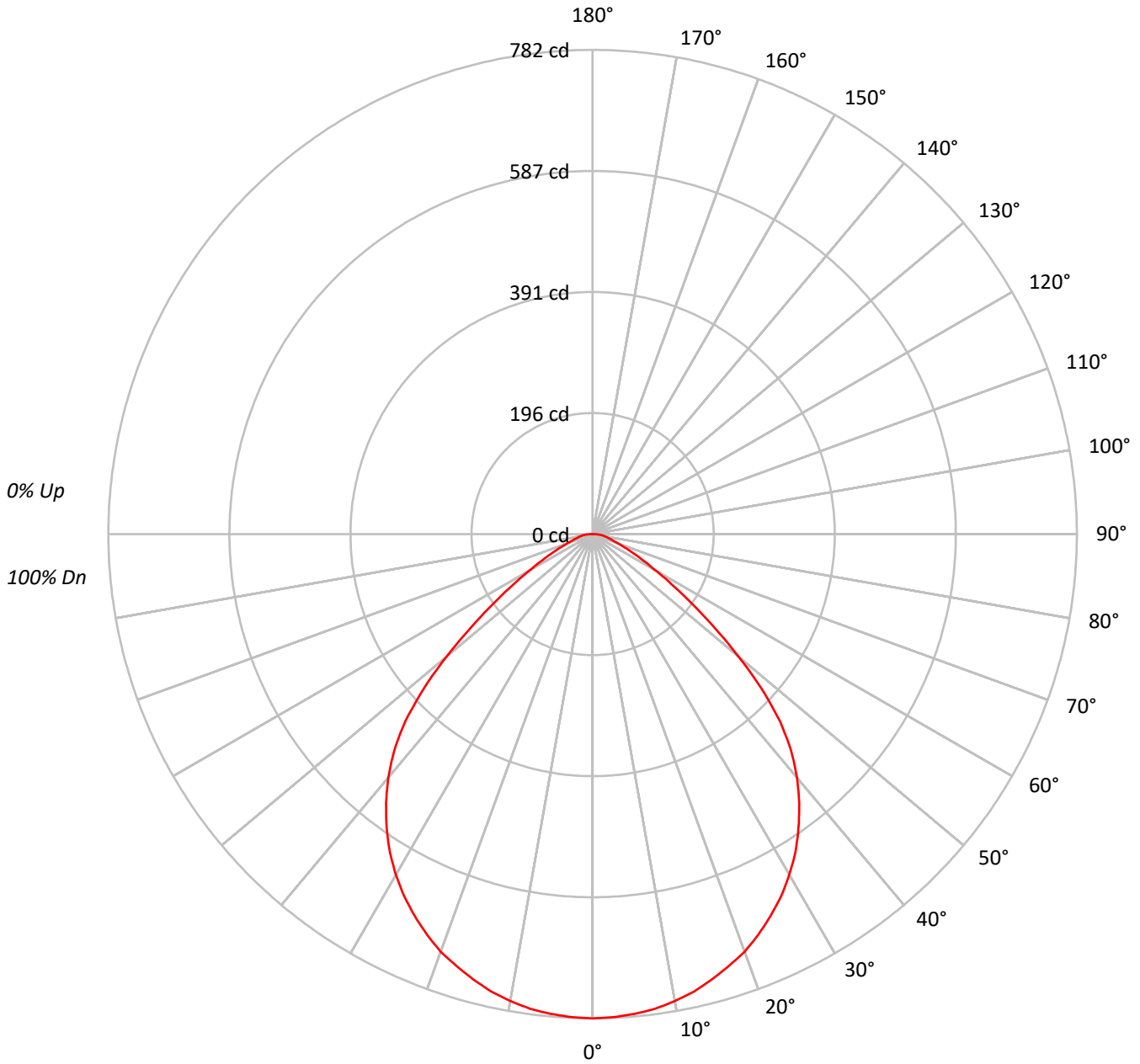
Lumens per Lamp: N/A
Luminaire Lumens: 1578.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53			
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48			
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39			
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42886
5°	42802
10°	42629
15°	42270
20°	41875
25°	41144
30°	40209
35°	38789
40°	36747
45°	33182
50°	26251
55°	18656
60°	12839
65°	9158
70°	6972
75°	6037
80°	6156
85°	6604

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33182 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	4.7
10°-20°	210.1	13.3
20°-30°	313.1	19.8
30°-40°	361.5	22.9
40°-50°	323.9	20.5
50°-60°	179.1	11.3
60°-70°	73.5	4.7
70°-80°	31.3	2.0
80°-90°	11.6	0.7
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°	597.1	37.8
0°-40°	958.7	60.8
0°-60°	1461.6	92.6
0°-90°	1578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1578.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	782	
5°	778	74
15°	745	210
25°	680	313
35°	580	362
45°	428	324
55°	195	179
65°	71	74
75°	28	31
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	782.3
2.5°	780.8
5°	777.8
7.5°	773.3
10°	765.8
12.5°	756.8
15°	744.8
17.5°	731.3
20°	717.8
22.5°	699.7
25°	680.2
27.5°	659.2
30°	635.2
32.5°	609.6
35°	579.6
37.5°	548.1
40°	513.5
42.5°	474.5
45°	428.0
47.5°	370.9
50°	307.8
52.5°	246.3
55°	195.2
57.5°	151.7
60°	117.1
62.5°	91.6
65°	70.6
67.5°	55.6
70°	43.5
72.5°	34.5
75°	28.5
77.5°	24.0
80°	19.5
82.5°	16.5
85°	10.5
87.5°	6.0
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)