

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: P641765

Luminaire Tested: ML5612LSVWFL97FS1E - 691WB - 600LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641765
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 - 600LM - 5000K
Description: ML56 RR, MILKY OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

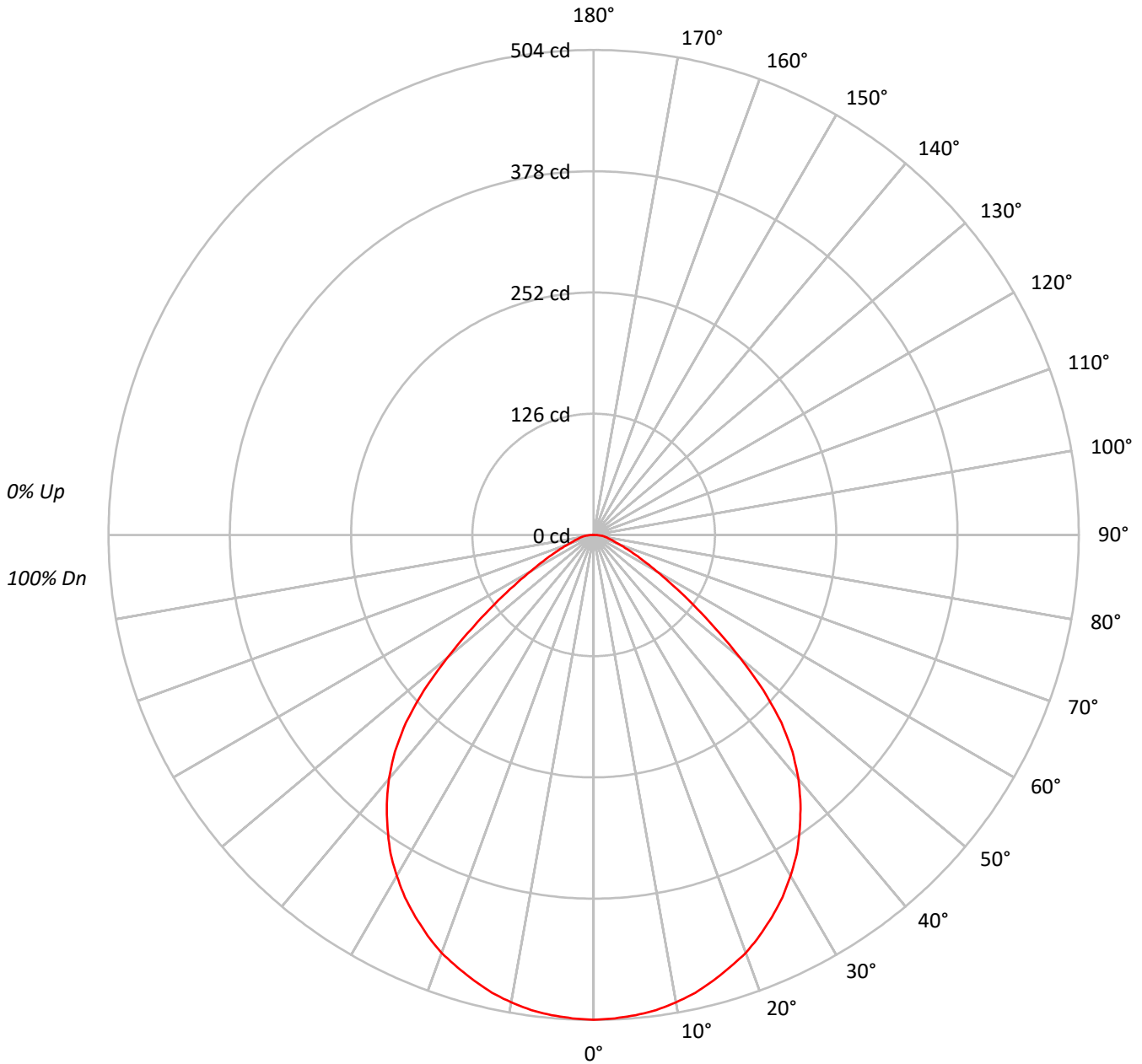
Lumens per Lamp: N/A
Luminaire Lumens: 1016.4 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
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	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°	27624
5°	27570
10°	27460
15°	27225
20°	26970
25°	26500
30°	25896
35°	24982
40°	23673
45°	21374
50°	16912
55°	12014
60°	8267
65°	5902
70°	4488
75°	3897
80°	3978
85°	4277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21374 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	4.7
10°-20°	135.3	13.3
20°-30°	201.7	19.8
30°-40°	232.9	22.9
40°-50°	208.6	20.5
50°-60°	115.3	11.3
60°-70°	47.3	4.7
70°-80°	20.1	2.0
80°-90°	7.5	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°	384.6	37.8
0°-40°	617.5	60.7
0°-60°	941.4	92.6
0°-90°	1016.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1016.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	504	
5°	501	48
15°	480	135
25°	438	202
35°	373	233
45°	276	209
55°	126	115
65°	46	47
75°	18	20
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	503.9
2.5°	502.9
5°	501.0
7.5°	498.1
10°	493.3
12.5°	487.5
15°	479.7
17.5°	471.0
20°	462.3
22.5°	450.7
25°	438.1
27.5°	424.6
30°	409.1
32.5°	392.7
35°	373.3
37.5°	353.0
40°	330.8
42.5°	305.6
45°	275.7
47.5°	238.9
50°	198.3
52.5°	158.6
55°	125.7
57.5°	97.7
60°	75.4
62.5°	59.0
65°	45.5
67.5°	35.8
70°	28.0
72.5°	22.2
75°	18.4
77.5°	15.5
80°	12.6
82.5°	10.6
85°	6.8
87.5°	3.9
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)