

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: P641834

Luminaire Tested: ML5612LSVWFL97FS1E - 693SNB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-111)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 693SNB - 1200LM - 4000K
Description: ML56 RR, MILKY OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1359.1 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

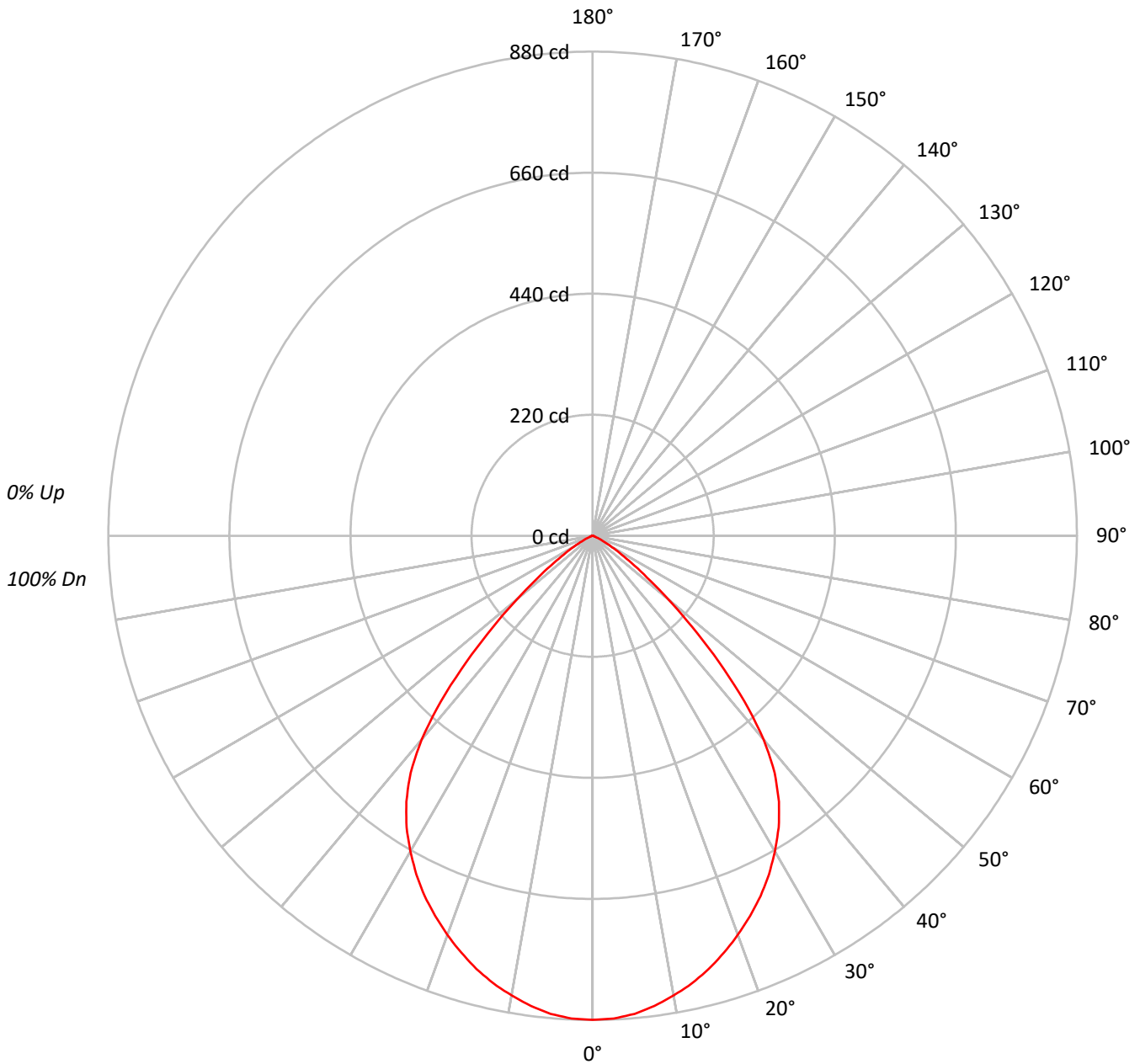
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	69	76	72	69	67			67
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60			60
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55			55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50			50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	47	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42			42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	48231
5°	48002
10°	47221
15°	46272
20°	45020
25°	43684
30°	41912
35°	39491
40°	34601
45°	25142
50°	15113
55°	8181
60°	4112
65°	1751
70°	481
75°	318
80°	474
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25142 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	6.1
10°-20°	229.4	16.9
20°-30°	331.8	24.4
30°-40°	364.6	26.8
40°-50°	249.9	18.4
50°-60°	82.8	6.1
60°-70°	15.2	1.1
70°-80°	2.2	0.2
80°-90°	0.6	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°	643.7	47.4
0°-40°	1008.4	74.2
0°-60°	1341.1	98.7
0°-90°	1359.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	880	
5°	872	82
15°	815	229
25°	722	332
35°	590	365
45°	324	250
55°	86	83
65°	14	15
75°	2	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	879.8
2.5°	878.3
5°	872.3
7.5°	861.8
10°	848.3
12.5°	833.3
15°	815.3
17.5°	794.3
20°	771.7
22.5°	747.7
25°	722.2
27.5°	693.7
30°	662.1
32.5°	629.1
35°	590.1
37.5°	543.5
40°	483.5
42.5°	408.4
45°	324.3
47.5°	244.7
50°	177.2
52.5°	124.6
55°	85.6
57.5°	57.1
60°	37.5
62.5°	22.5
65°	13.5
67.5°	6.0
70°	3.0
72.5°	3.0
75°	1.5
77.5°	1.5
80°	1.5
82.5°	1.5
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)