

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: P641699

Luminaire Tested: ML5612LSVWFL97FS1E - 594SNB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641699
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-102)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 594SNB - 1200LM - 4000K
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1620.1 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.26
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

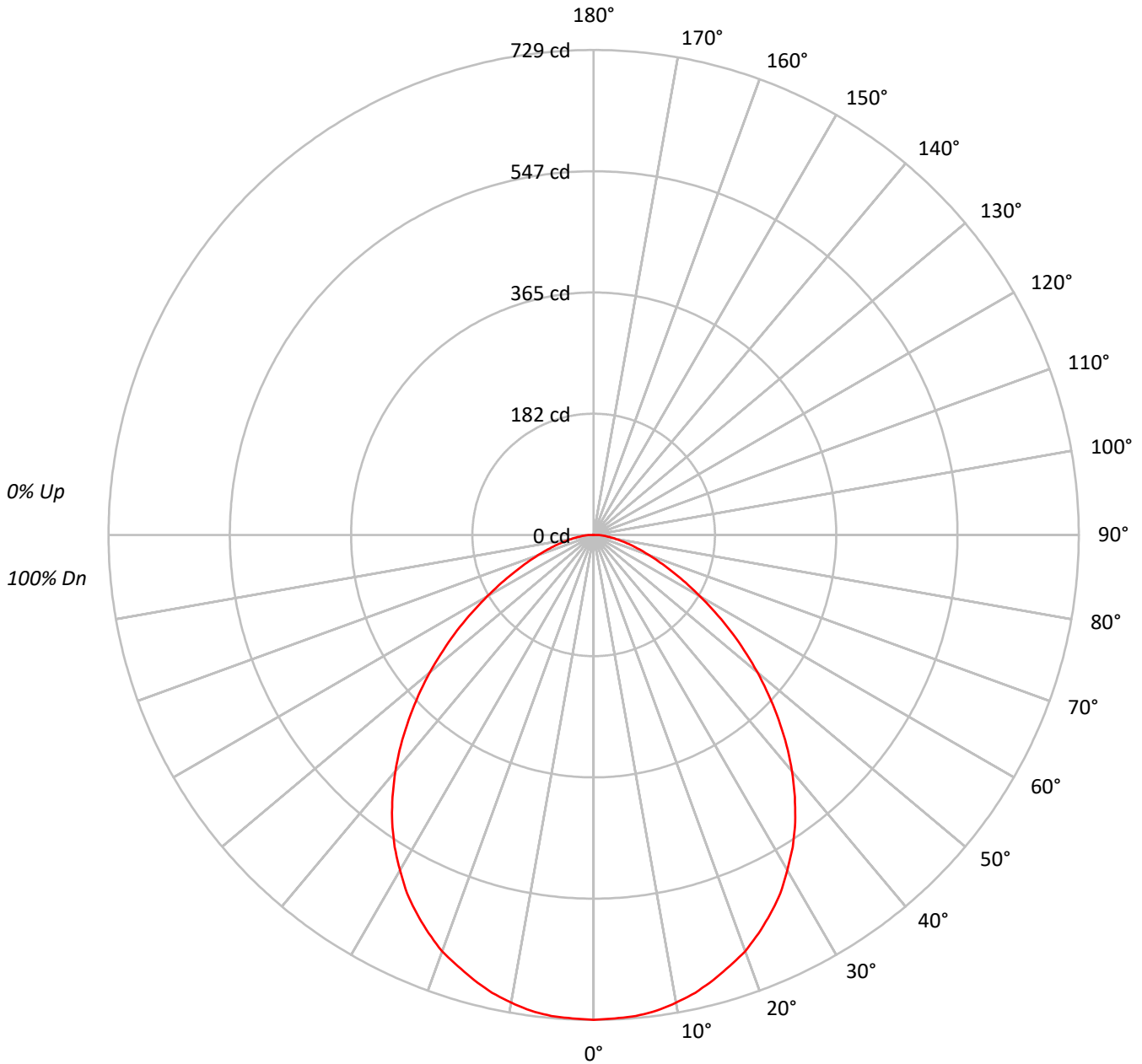
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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																			
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87																			
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74																			
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64																			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56																			
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49																			
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44																			
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39																			
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32																			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57548
5°	57530
10°	57233
15°	56636
20°	55949
25°	54743
30°	53051
35°	50883
40°	47764
45°	43874
50°	39422
55°	34476
60°	29129
65°	24376
70°	20426
75°	17385
80°	15002
85°	14945

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 43874 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	4.3
10°-20°	195.4	12.1
20°-30°	289.1	17.8
30°-40°	328.9	20.3
40°-50°	302.7	18.7
50°-60°	224.1	13.8
60°-70°	131.2	8.1
70°-80°	61.5	3.8
80°-90°	18.4	1.1
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°	553.4	34.2
0°-40°	882.4	54.5
0°-60°	1409.1	87.0
0°-90°	1620.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1620.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	729	
5°	726	69
15°	693	195
25°	628	289
35°	528	329
45°	393	303
55°	250	224
65°	130	131
75°	57	61
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	729.0
2.5°	727.5
5°	726.0
7.5°	721.5
10°	714.0
12.5°	705.0
15°	693.0
17.5°	679.5
20°	666.0
22.5°	648.0
25°	628.5
27.5°	607.5
30°	582.0
32.5°	556.5
35°	528.0
37.5°	496.5
40°	463.5
42.5°	429.0
45°	393.0
47.5°	357.0
50°	321.0
52.5°	285.0
55°	250.5
57.5°	216.0
60°	184.5
62.5°	156.0
65°	130.5
67.5°	108.0
70°	88.5
72.5°	72.0
75°	57.0
77.5°	43.5
80°	33.0
82.5°	24.0
85°	16.5
87.5°	10.5
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)