

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: P641708

Luminaire Tested: ML5612LSVWFL97FS1E - 594SNB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641708
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 - 900LM - 3500K
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

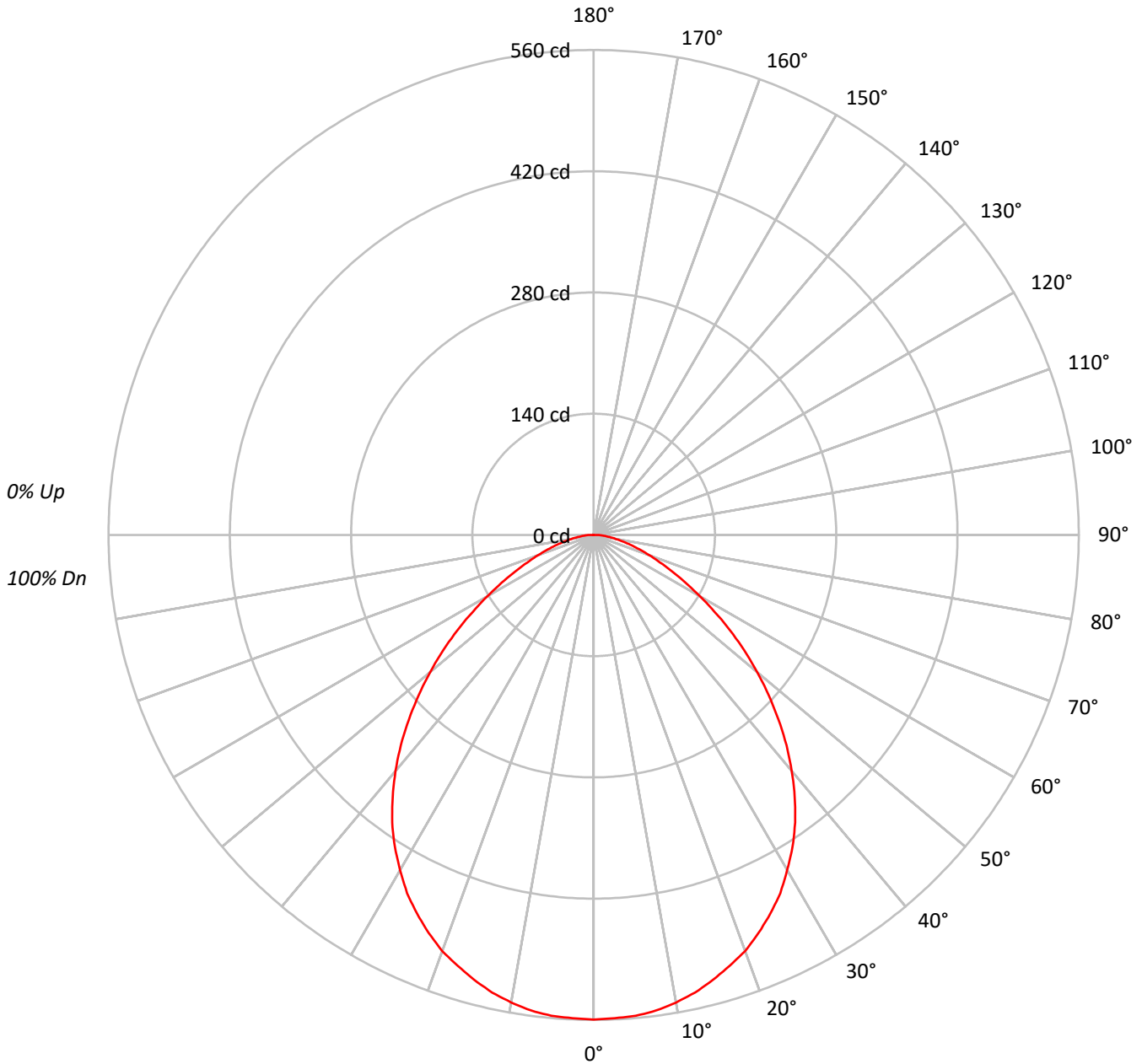
Lumens per Lamp: N/A
Luminaire Lumens: 1243.8 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.26
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44183
5°	44170
10°	43943
15°	43478
20°	42953
25°	42027
30°	40727
35°	39068
40°	36665
45°	33682
50°	30260
55°	26466
60°	22356
65°	18716
70°	15672
75°	13359
80°	11501
85°	11503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33682 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	4.3
10°-20°	150.0	12.1
20°-30°	221.9	17.8
30°-40°	252.5	20.3
40°-50°	232.4	18.7
50°-60°	172.0	13.8
60°-70°	100.7	8.1
70°-80°	47.2	3.8
80°-90°	14.1	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°	424.9	34.2
0°-40°	677.4	54.5
0°-60°	1081.8	87.0
0°-90°	1243.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1243.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	560	
5°	557	53
15°	532	150
25°	482	222
35°	405	253
45°	302	232
55°	192	172
65°	100	101
75°	44	47
85°	13	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	559.7
2.5°	558.5
5°	557.4
7.5°	553.9
10°	548.2
12.5°	541.2
15°	532.0
17.5°	521.7
20°	511.3
22.5°	497.5
25°	482.5
27.5°	466.4
30°	446.8
32.5°	427.2
35°	405.4
37.5°	381.2
40°	355.8
42.5°	329.4
45°	301.7
47.5°	274.1
50°	246.4
52.5°	218.8
55°	192.3
57.5°	165.8
60°	141.6
62.5°	119.8
65°	100.2
67.5°	82.9
70°	67.9
72.5°	55.3
75°	43.8
77.5°	33.4
80°	25.3
82.5°	18.4
85°	12.7
87.5°	8.1
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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