

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: P641063

Luminaire Tested: ML5612LSNFL2597FS1E - 596WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 596WB - 900LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

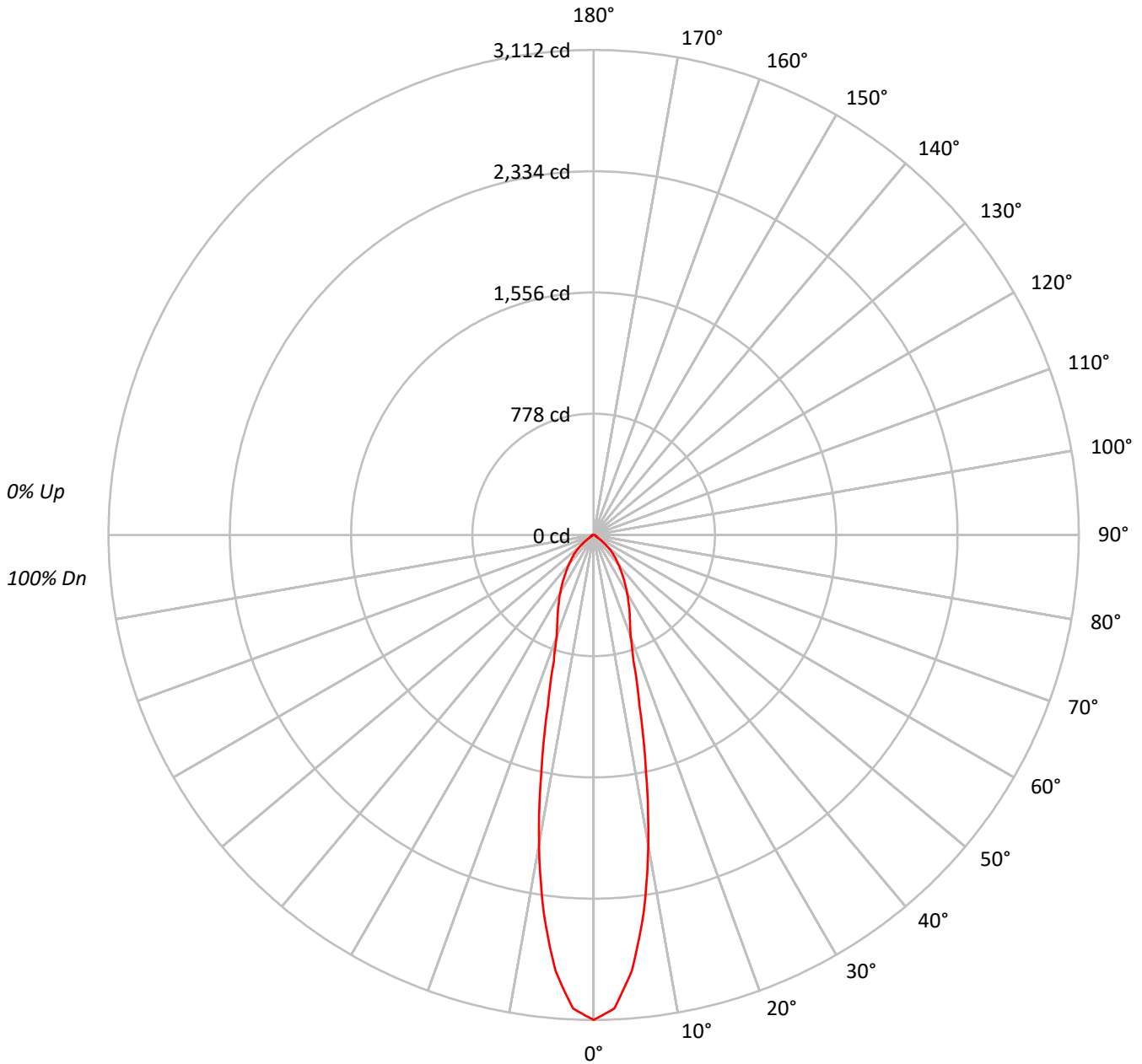
Lumens per Lamp: N/A
Luminaire Lumens: 1241.5 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80	80	80	80
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75	75	75	75
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70	70	70	70
6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65	65	65	65
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62	62	62	62
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58	58	58	58
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55	55	55	55
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53	53	53	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	245672
5°	222489
10°	162025
15°	92824
20°	58024
25°	47401
30°	39096
35°	31667
40°	25433
45°	20207
50°	13595
55°	6193
60°	3458
65°	3231
70°	2654
75°	2471
80°	2637
85°	3170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20207 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.6	19.5
10°-20°	327.0	26.3
20°-30°	250.5	20.2
30°-40°	206.4	16.6
40°-50°	138.1	11.1
50°-60°	48.0	3.9
60°-70°	16.7	1.3
70°-80°	9.0	0.7
80°-90°	3.3	0.3
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°	820.1	66.1
0°-40°	1026.5	82.7
0°-60°	1212.6	97.7
0°-90°	1241.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1241.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3112	
5°	2808	243
15°	1136	327
25°	544	250
35°	329	206
45°	181	138
55°	45	48
65°	17	17
75°	8	9
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3112.1
2.5°	3041.7
5°	2807.7
7.5°	2452.5
10°	2021.3
12.5°	1549.7
15°	1135.8
17.5°	849.8
20°	690.7
22.5°	607.7
25°	544.2
27.5°	483.1
30°	428.9
32.5°	377.0
35°	328.6
37.5°	284.8
40°	246.8
42.5°	212.2
45°	181.0
47.5°	148.7
50°	110.7
52.5°	78.4
55°	45.0
57.5°	27.7
60°	21.9
62.5°	19.6
65°	17.3
67.5°	13.8
70°	11.5
72.5°	9.2
75°	8.1
77.5°	8.1
80°	5.8
82.5°	4.6
85°	3.5
87.5°	1.2
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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