

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: P641004

Luminaire Tested: ML5612LSNFL2597FS1E - 593WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 593WB - 900LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

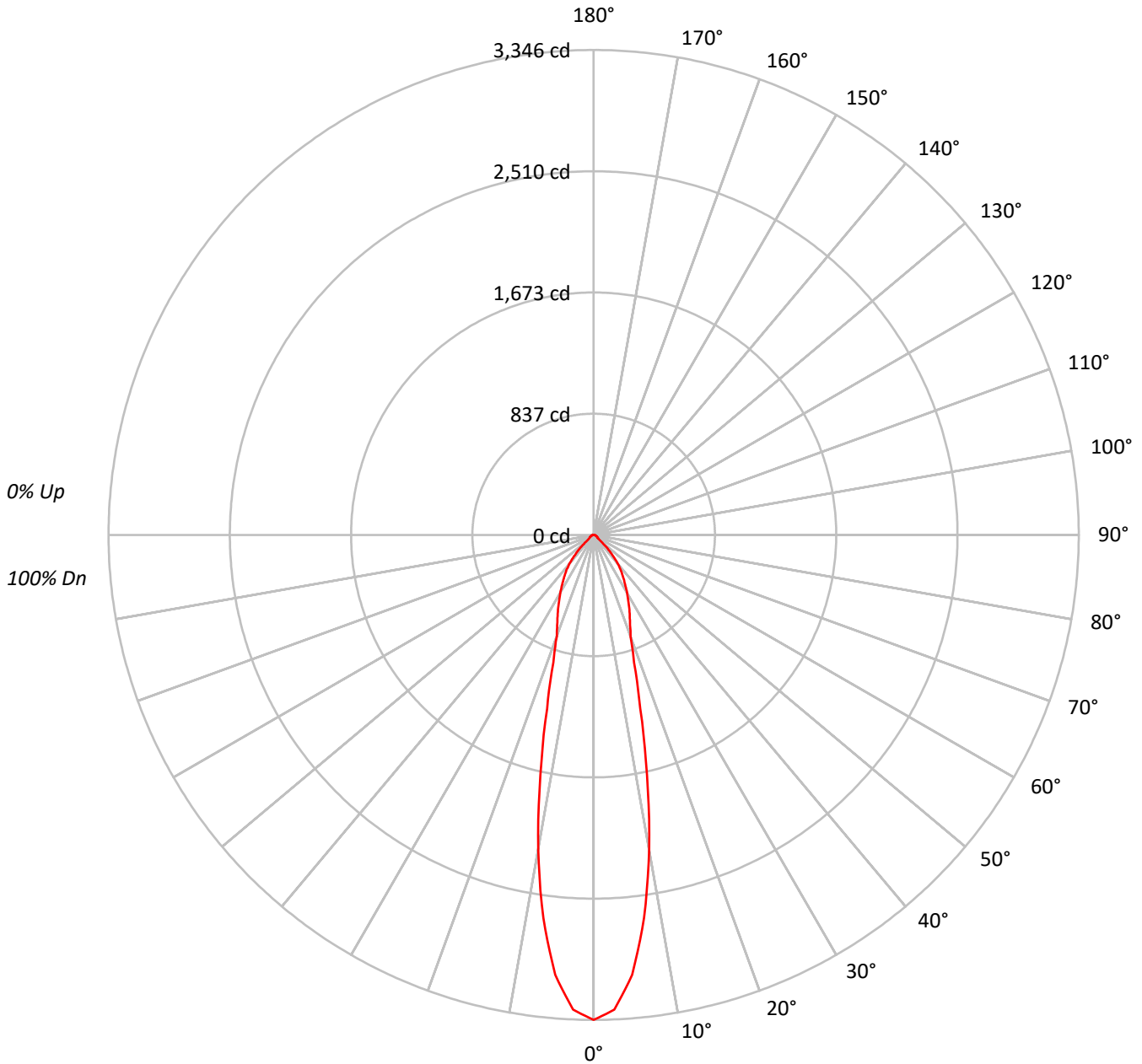
Lumens per Lamp: N/A
Luminaire Lumens: 1294.9 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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																		
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	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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93																												
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																												
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																												
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75																												
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71																												
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																												
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63																												
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60																												
9	78	68	63	59	77	68	62	59	67	62	59	66	62	58	65	61	58	57																												
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54																												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	264136
5°	241349
10°	176790
15°	101430
20°	62560
25°	50920
30°	41858
35°	34086
40°	26855
45°	16489
50°	6091
55°	4611
60°	4310
65°	3941
70°	4016
75°	4179
80°	3955
85°	4529

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.3	20.3
10°-20°	356.6	27.5
20°-30°	269.1	20.8
30°-40°	221.6	17.1
40°-50°	112.8	8.7
50°-60°	31.6	2.4
60°-70°	21.5	1.7
70°-80°	13.9	1.1
80°-90°	4.6	0.4
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°	888.9	68.7
0°-40°	1110.5	85.8
0°-60°	1254.9	96.9
0°-90°	1294.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1294.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3346	
5°	3046	263
15°	1241	357
25°	585	269
35°	354	222
45°	148	113
55°	34	32
65°	21	21
75°	14	14
85°	5	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3346.0
2.5°	3277.8
5°	3045.7
7.5°	2664.7
10°	2205.5
12.5°	1695.4
15°	1241.1
17.5°	924.6
20°	744.7
22.5°	652.8
25°	584.6
27.5°	518.8
30°	459.2
32.5°	403.4
35°	353.7
37.5°	309.0
40°	260.6
42.5°	201.1
45°	147.7
47.5°	90.6
50°	49.6
52.5°	38.5
55°	33.5
57.5°	31.0
60°	27.3
62.5°	24.8
65°	21.1
67.5°	18.6
70°	17.4
72.5°	14.9
75°	13.7
77.5°	11.2
80°	8.7
82.5°	6.2
85°	5.0
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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