

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: P641053

Luminaire Tested: ML5612LSNFL2597FS1E - 596WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641053
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 - 1200LM - 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

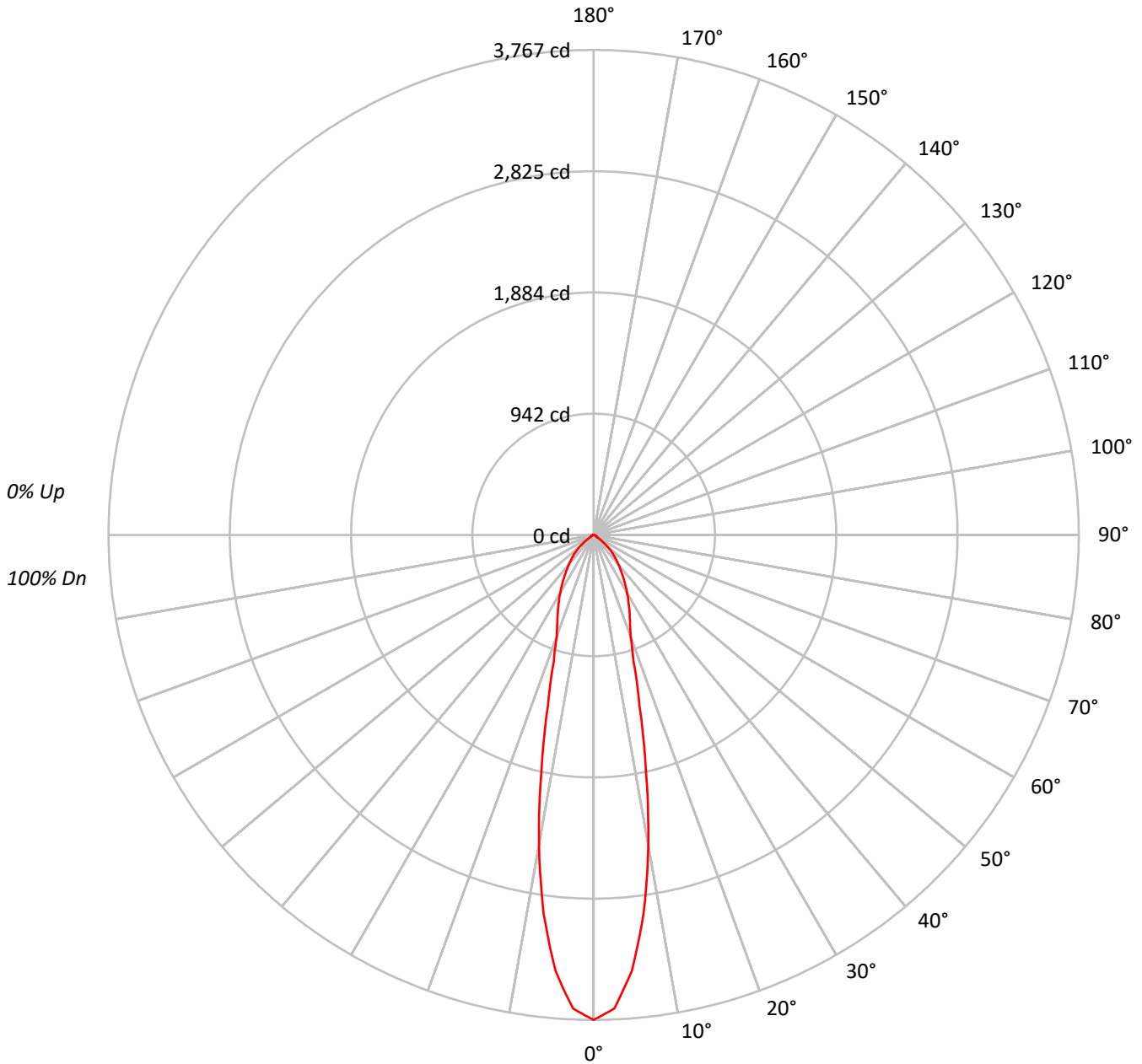
Lumens per Lamp: N/A
Luminaire Lumens: 1502.9 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	297394
5°	269329
10°	196140
15°	112365
20°	70238
25°	57383
30°	47327
35°	38336
40°	30781
45°	24460
50°	16457
55°	7487
60°	4184
65°	3904
70°	3231
75°	2989
80°	3182
85°	3804

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24460 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.7	19.5
10°-20°	395.9	26.3
20°-30°	303.2	20.2
30°-40°	249.8	16.6
40°-50°	167.2	11.1
50°-60°	58.0	3.9
60°-70°	20.2	1.3
70°-80°	10.9	0.7
80°-90°	4.0	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°	992.8	66.1
0°-40°	1242.6	82.7
0°-60°	1467.8	97.7
0°-90°	1502.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1502.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3767	
5°	3399	294
15°	1375	396
25°	659	303
35°	398	250
45°	219	167
55°	54	58
65°	21	20
75°	10	11
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3767.3
2.5°	3682.2
5°	3398.8
7.5°	2968.9
10°	2446.9
12.5°	1876.0
15°	1374.9
17.5°	1028.7
20°	836.1
22.5°	735.6
25°	658.8
27.5°	584.9
30°	519.2
32.5°	456.4
35°	397.8
37.5°	344.8
40°	298.7
42.5°	256.8
45°	219.1
47.5°	180.1
50°	134.0
52.5°	94.9
55°	54.4
57.5°	33.5
60°	26.5
62.5°	23.7
65°	20.9
67.5°	16.7
70°	14.0
72.5°	11.2
75°	9.8
77.5°	9.8
80°	7.0
82.5°	5.6
85°	4.2
87.5°	1.4
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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