

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P641052

Luminaire Tested: ML5612LSNFL2597FS1E - 596WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641052
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 - 3000K
Description: ML56 RR, 25D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1463.1 lumens
Efficiency: N/A
Efficacy: 88.7 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

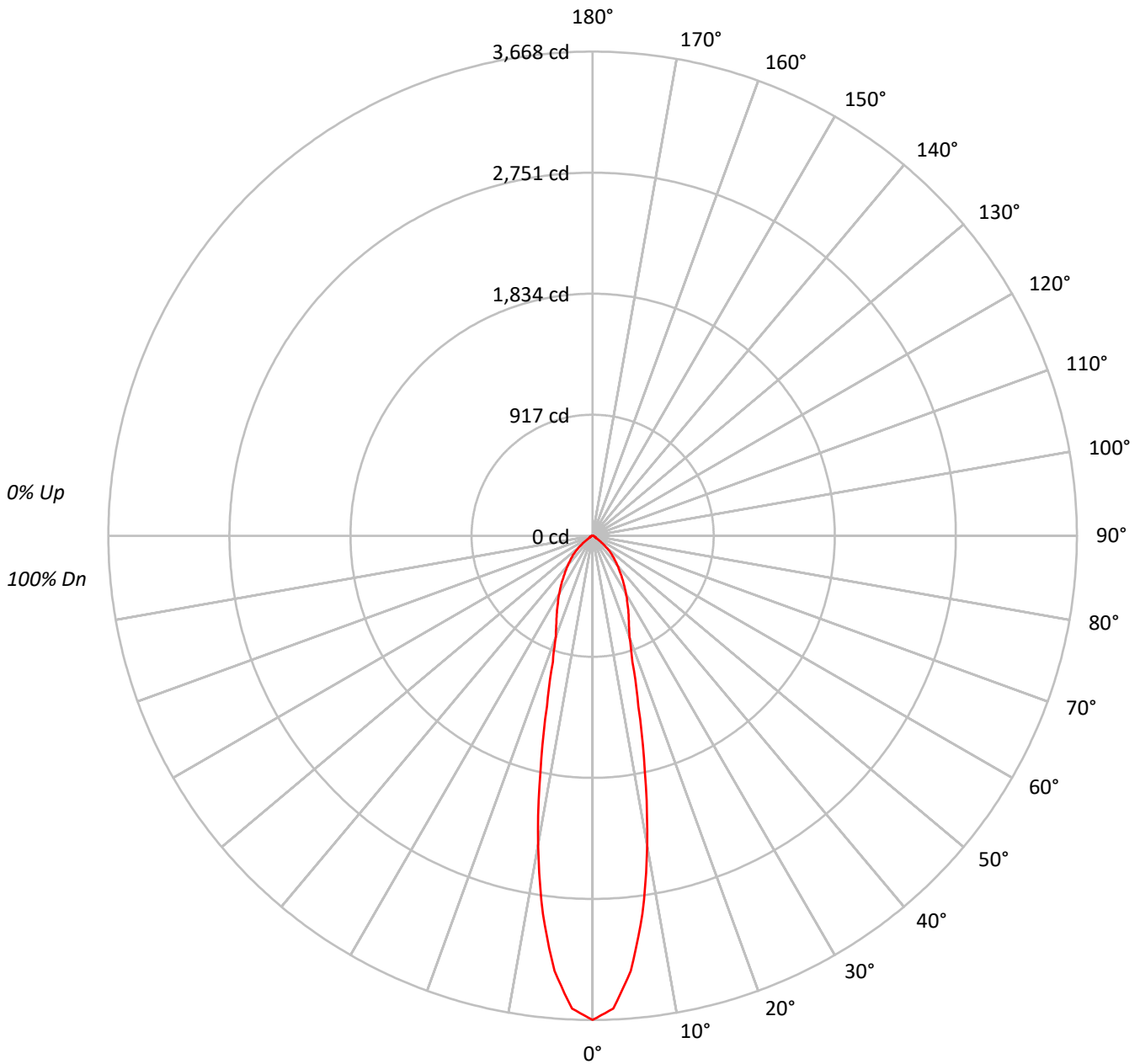
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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			100																
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80			80																
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75			75																
5	92	84	78	73	90	83	77	73	81	76	72	79	75	72	78	74	71	70			70																
6	88	79	73	69	86	78	72	68	76	71	68	75	71	67	74	70	67	65			65																
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62			62																
8	80	71	65	61	79	70	64	60	69	64	60	68	63	60	67	63	60	58			58																
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55																
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	289516
5°	262197
10°	190946
15°	109390
20°	68373
25°	55867
30°	46078
35°	37324
40°	29967
45°	23813
50°	16014
55°	7294
60°	4073
65°	3811
70°	3139
75°	2898
80°	3091
85°	3714

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23813 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.9	19.5
10°-20°	385.4	26.3
20°-30°	295.2	20.2
30°-40°	243.2	16.6
40°-50°	162.8	11.1
50°-60°	56.5	3.9
60°-70°	19.6	1.3
70°-80°	10.6	0.7
80°-90°	3.9	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°	966.5	66.1
0°-40°	1209.7	82.7
0°-60°	1429.0	97.7
0°-90°	1463.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1463.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3668	
5°	3309	286
15°	1338	385
25°	641	295
35°	387	243
45°	213	163
55°	53	56
65°	20	20
75°	10	11
85°	4	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3667.5
2.5°	3584.6
5°	3308.8
7.5°	2890.3
10°	2382.1
12.5°	1826.3
15°	1338.5
17.5°	1001.5
20°	813.9
22.5°	716.1
25°	641.4
27.5°	569.4
30°	505.5
32.5°	444.3
35°	387.3
37.5°	335.6
40°	290.8
42.5°	250.0
45°	213.3
47.5°	175.3
50°	130.4
52.5°	92.4
55°	53.0
57.5°	32.6
60°	25.8
62.5°	23.1
65°	20.4
67.5°	16.3
70°	13.6
72.5°	10.9
75°	9.5
77.5°	9.5
80°	6.8
82.5°	5.4
85°	4.1
87.5°	1.4
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)