

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: P640889

Luminaire Tested: ML5612LSNFL2597FS1E - 591WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 591WB - 1200LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1594.5 lumens
Efficiency: N/A
Efficacy: 96.6 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

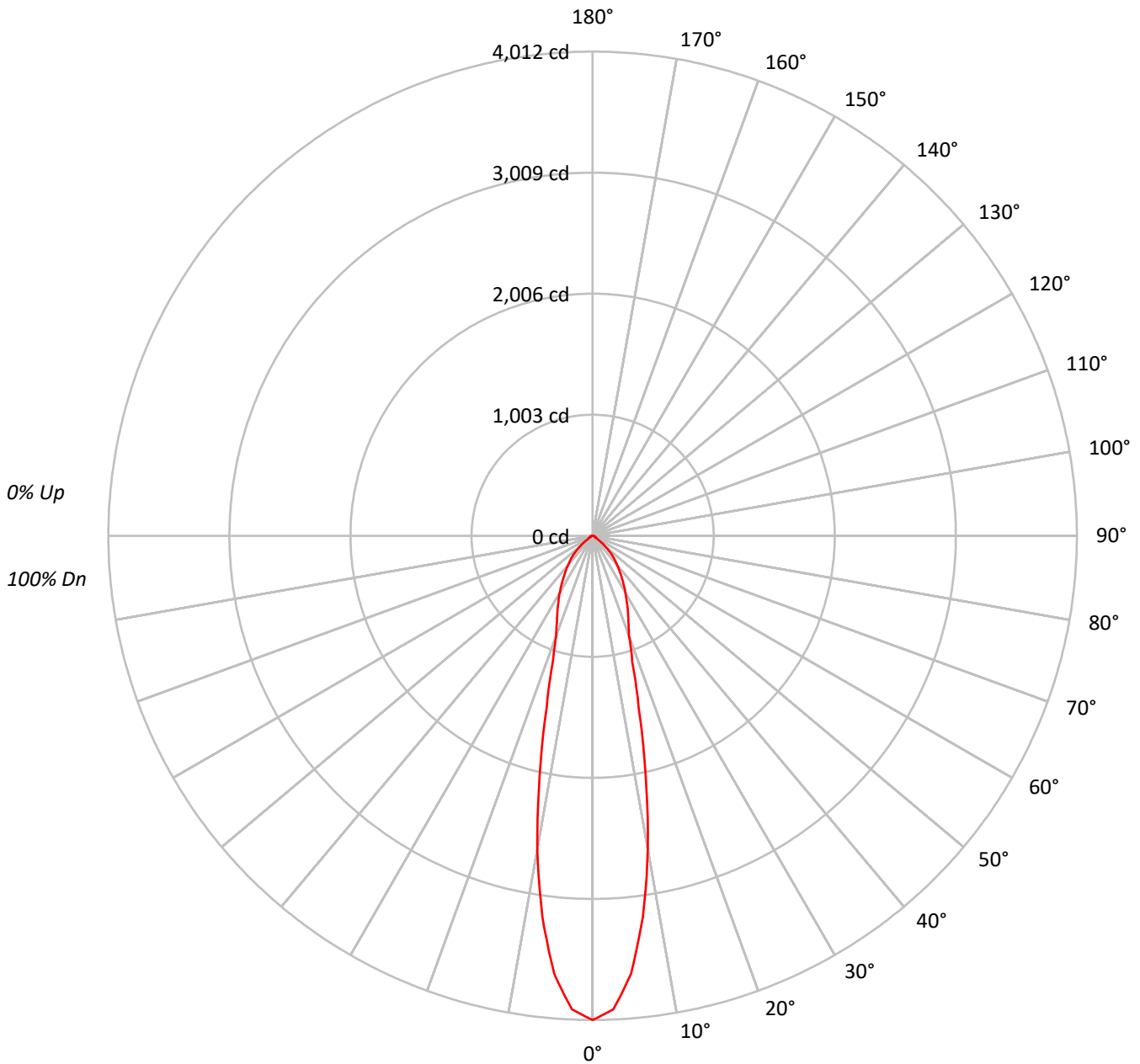
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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																			
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	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66																			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58																			
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56																			
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	316703
5°	288752
10°	211306
15°	120300
20°	74069
25°	60179
30°	49560
35°	40244
40°	32502
45°	25990
50°	16972
55°	7446
60°	4736
65°	4203
70°	3808
75°	3660
80°	4091
85°	4076

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25990 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.9	19.8
10°-20°	423.8	26.6
20°-30°	318.2	20.0
30°-40°	262.3	16.5
40°-50°	174.9	11.0
50°-60°	59.3	3.7
60°-70°	22.8	1.4
70°-80°	12.9	0.8
80°-90°	5.3	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°	1056.9	66.3
0°-40°	1319.2	82.7
0°-60°	1553.5	97.4
0°-90°	1594.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1594.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4012	
5°	3644	315
15°	1472	424
25°	691	318
35°	418	262
45°	233	175
55°	54	59
65°	22	23
75°	12	13
85°	4	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4011.9
2.5°	3929.3
5°	3643.9
7.5°	3185.8
10°	2636.1
12.5°	2023.2
15°	1472.0
17.5°	1092.0
20°	881.7
22.5°	772.0
25°	690.9
27.5°	612.8
30°	543.7
32.5°	477.6
35°	417.6
37.5°	363.5
40°	315.4
42.5°	271.9
45°	232.8
47.5°	181.7
50°	138.2
52.5°	94.6
55°	54.1
57.5°	36.0
60°	30.0
62.5°	27.0
65°	22.5
67.5°	19.5
70°	16.5
72.5°	13.5
75°	12.0
77.5°	10.5
80°	9.0
82.5°	7.5
85°	4.5
87.5°	3.0
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)