

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: P640890

Luminaire Tested: ML5612LSNFL2597FS1E - 591WB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640890
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 - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

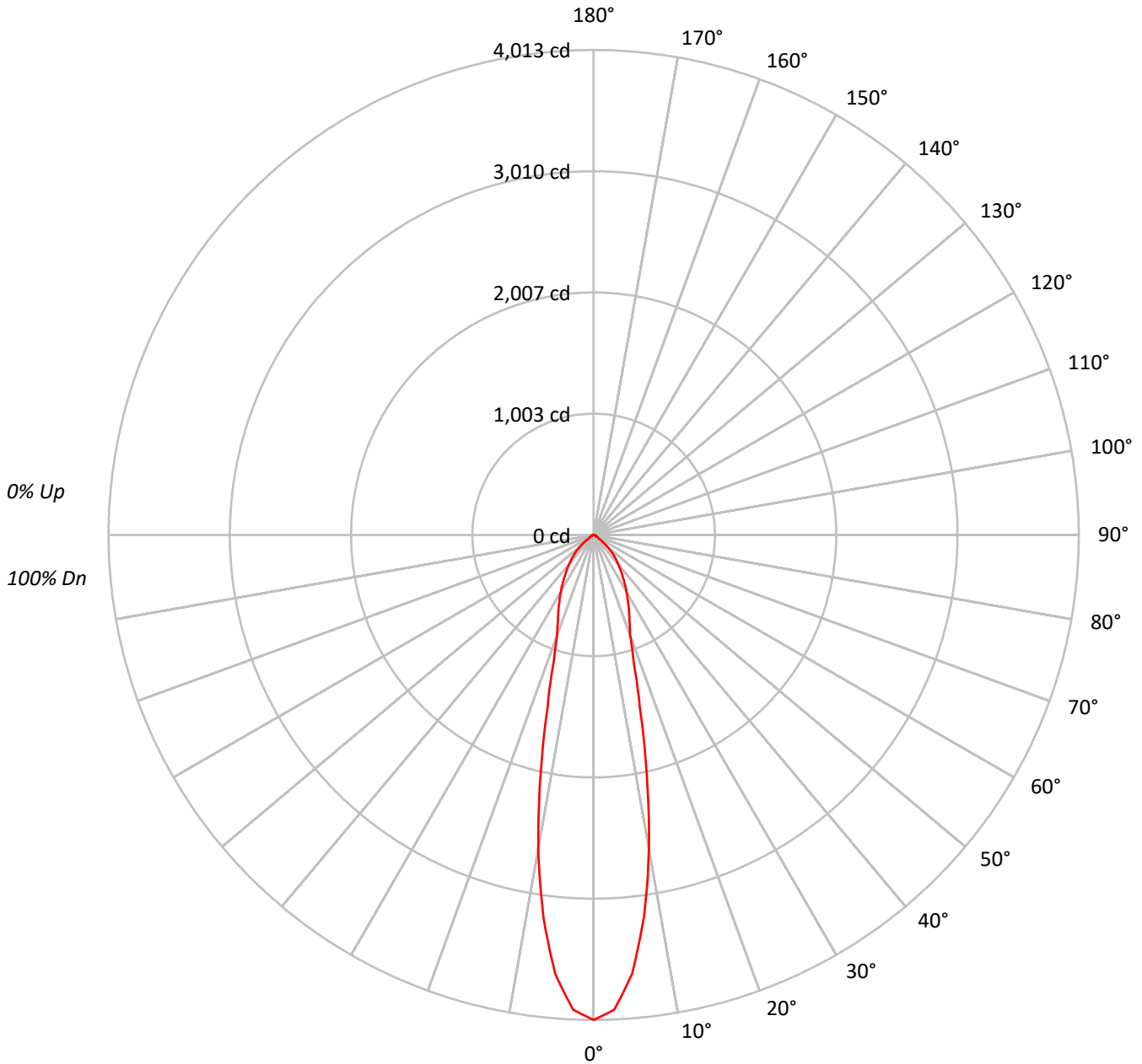
Lumens per Lamp: N/A
Luminaire Lumens: 1595.1 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): 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
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	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70			70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66			66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58			58
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56			56
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53			53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	316821
5°	288863
10°	211387
15°	120341
20°	74094
25°	60205
30°	49578
35°	40253
40°	32512
45°	26001
50°	16972
55°	7446
60°	4752
65°	4203
70°	3808
75°	3660
80°	4091
85°	4076

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26001 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.1	19.8
10°-20°	423.9	26.6
20°-30°	318.3	20.0
30°-40°	262.4	16.5
40°-50°	175.0	11.0
50°-60°	59.4	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°	1057.3	66.3
0°-40°	1319.7	82.7
0°-60°	1554.1	97.4
0°-90°	1595.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1595.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4013	
5°	3645	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°	4013.4
2.5°	3930.8
5°	3645.3
7.5°	3187.0
10°	2637.1
12.5°	2024.0
15°	1472.5
17.5°	1092.4
20°	882.0
22.5°	772.3
25°	691.2
27.5°	613.1
30°	543.9
32.5°	477.8
35°	417.7
37.5°	363.6
40°	315.5
42.5°	272.0
45°	232.9
47.5°	181.8
50°	138.2
52.5°	94.7
55°	54.1
57.5°	36.1
60°	30.1
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)