

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: P641080

Luminaire Tested: ML5612LSNFL2597FS1E - 691WB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 691WB - 900LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

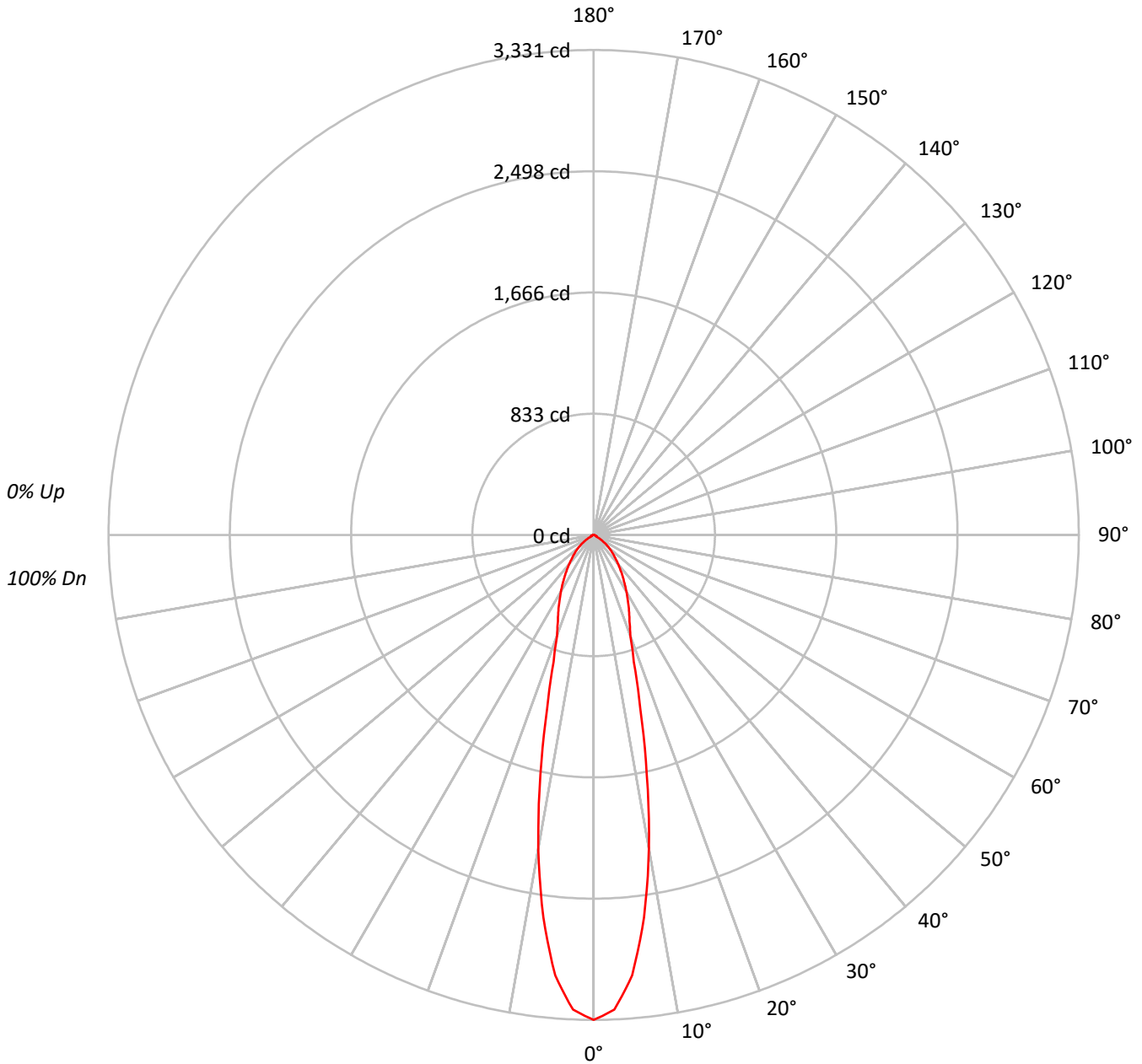
Lumens per Lamp: N/A
Luminaire Lumens: 1346.3 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	91	94	92	90	92	89	88	86			86
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80			80
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74			74
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69			69
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65			65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			61
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58			58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55			55
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	57	53	52			52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	182622
5°	167136
10°	121763
15°	69995
20°	42850
25°	34671
30°	28428
35°	23169
40°	18642
45°	14909
50°	11744
55°	7589
60°	2993
65°	2257
70°	1795
75°	1567
80°	1578
85°	1572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14909 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.9	19.5
10°-20°	353.6	26.3
20°-30°	264.1	19.6
30°-40°	217.1	16.1
40°-50°	149.7	11.1
50°-60°	71.8	5.3
60°-70°	17.3	1.3
70°-80°	8.0	0.6
80°-90°	2.7	0.2
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°	879.7	65.3
0°-40°	1096.8	81.5
0°-60°	1318.2	97.9
0°-90°	1346.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1346.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3331	
5°	3037	262
15°	1233	354
25°	573	264
35°	346	217
45°	192	150
55°	79	72
65°	17	17
75°	7	8
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3331.3
2.5°	3264.3
5°	3037.2
7.5°	2648.9
10°	2187.4
12.5°	1686.1
15°	1233.3
17.5°	913.2
20°	734.5
22.5°	641.4
25°	573.2
27.5°	508.7
30°	449.1
32.5°	394.5
35°	346.2
37.5°	301.5
40°	260.5
42.5°	224.6
45°	192.3
47.5°	163.8
50°	137.7
52.5°	111.7
55°	79.4
57.5°	50.9
60°	27.3
62.5°	19.9
65°	17.4
67.5°	13.6
70°	11.2
72.5°	8.7
75°	7.4
77.5°	6.2
80°	5.0
82.5°	3.7
85°	2.5
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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