

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: P641152

Luminaire Tested: ML5612LSNFL2597FS1E - 693SNB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 693SNB - 900LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

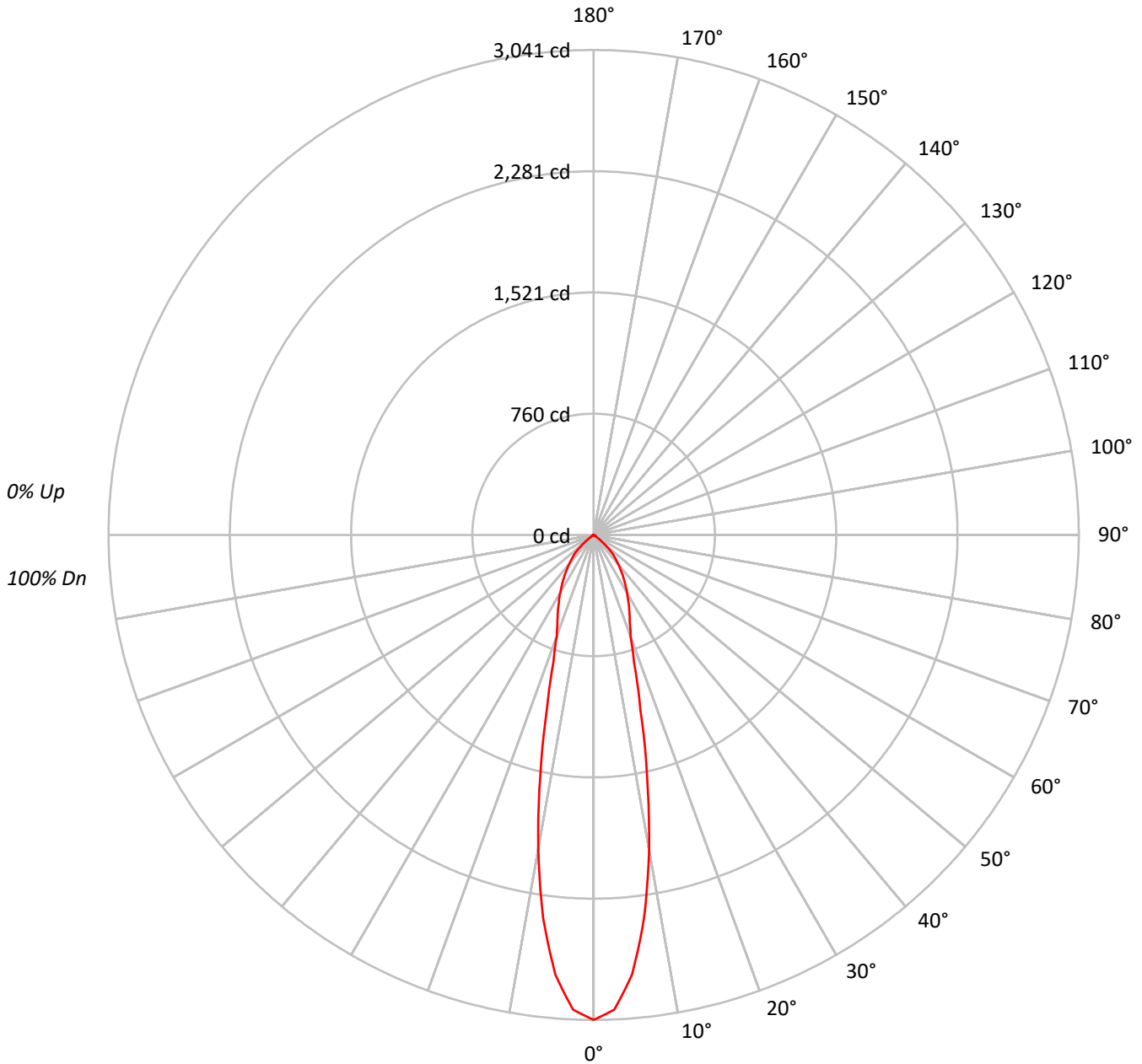
Lumens per Lamp: N/A
Luminaire Lumens: 1168.2 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94			94																
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			88																
3	103	97	92	88	101	96	91	88	93	89	86	90	87	85	88	86	84	82			82																
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77			77																
5	94	86	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72			72																
6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68			68																
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64			64																
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61			61																
9	78	69	63	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58			58																
10	75	66	60	57	74	65	60	57	65	60	57	64	59	56	63	59	56	55			55																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	166692
5°	152146
10°	111382
15°	64166
20°	39454
25°	32089
30°	26485
35°	21690
40°	17254
45°	13304
50°	7079
55°	1826
60°	1107
65°	584
70°	176
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13304 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.1	20.5
10°-20°	324.3	27.8
20°-30°	244.5	20.9
30°-40°	202.3	17.3
40°-50°	126.5	10.8
50°-60°	26.0	2.2
60°-70°	4.7	0.4
70°-80°	0.7	0.1
80°-90°	0.0	0.0
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°	807.9	69.2
0°-40°	1010.2	86.5
0°-60°	1162.8	99.5
0°-90°	1168.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1168.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3041	
5°	2765	239
15°	1131	324
25°	530	244
35°	324	202
45°	172	127
55°	19	26
65°	4	5
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3040.7
2.5°	2980.1
5°	2764.8
7.5°	2422.7
10°	2000.9
12.5°	1543.3
15°	1130.6
17.5°	840.1
20°	676.3
22.5°	592.2
25°	530.5
27.5°	472.2
30°	418.4
32.5°	369.0
35°	324.1
37.5°	279.3
40°	241.1
42.5°	204.1
45°	171.6
47.5°	124.5
50°	83.0
52.5°	39.3
55°	19.1
57.5°	13.5
60°	10.1
62.5°	6.7
65°	4.5
67.5°	2.2
70°	1.1
72.5°	1.1
75°	0.0
77.5°	1.1
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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(END OF REPORT)