

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: P641148

Luminaire Tested: ML5612LSNFL2597FS1E - 693SNB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641148
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 - 600LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

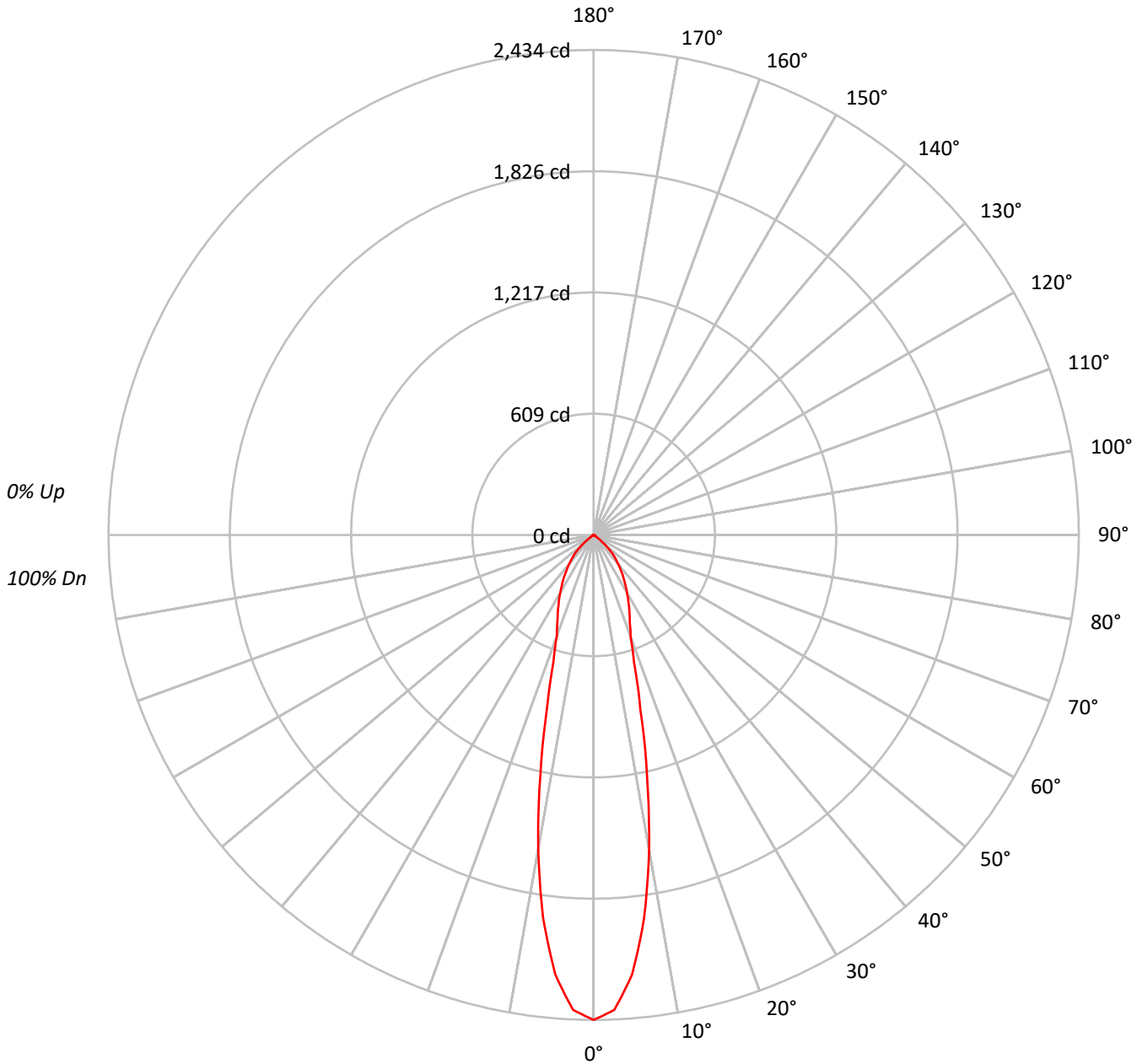
Lumens per Lamp: N/A
Luminaire Lumens: 935.4 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
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			
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			
3	103	97	92	88	101	96	91	88	93	89	86	90	87	85	88	86	84	82			
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77			
5	94	86	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72			
6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68			
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64			
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61			
9	78	69	63	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58			
10	75	66	60	57	74	65	60	57	65	60	57	64	59	56	63	59	56	55			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	133460
5°	121813
10°	89182
15°	51374
20°	31590
25°	25695
30°	21206
35°	17367
40°	13819
45°	10652
50°	5671
55°	1462
60°	888
65°	467
70°	144
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10652 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.5	20.5
10°-20°	259.6	27.8
20°-30°	195.8	20.9
30°-40°	162.0	17.3
40°-50°	101.3	10.8
50°-60°	20.8	2.2
60°-70°	3.8	0.4
70°-80°	0.6	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°	646.9	69.2
0°-40°	808.9	86.5
0°-60°	931.0	99.5
0°-90°	935.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	935.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2434	
5°	2214	191
15°	905	260
25°	425	196
35°	260	162
45°	137	101
55°	15	21
65°	4	4
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2434.5
2.5°	2386.1
5°	2213.6
7.5°	1939.7
10°	1602.1
12.5°	1235.7
15°	905.2
17.5°	672.6
20°	541.5
22.5°	474.2
25°	424.8
27.5°	378.1
30°	335.0
32.5°	295.5
35°	259.5
37.5°	223.6
40°	193.1
42.5°	163.4
45°	137.4
47.5°	99.7
50°	66.5
52.5°	31.4
55°	15.3
57.5°	10.8
60°	8.1
62.5°	5.4
65°	3.6
67.5°	1.8
70°	0.9
72.5°	0.9
75°	0.0
77.5°	0.9
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)