

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: P641153

Luminaire Tested: ML5612LSNFL2597FS1E - 693SNB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641153
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 - 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

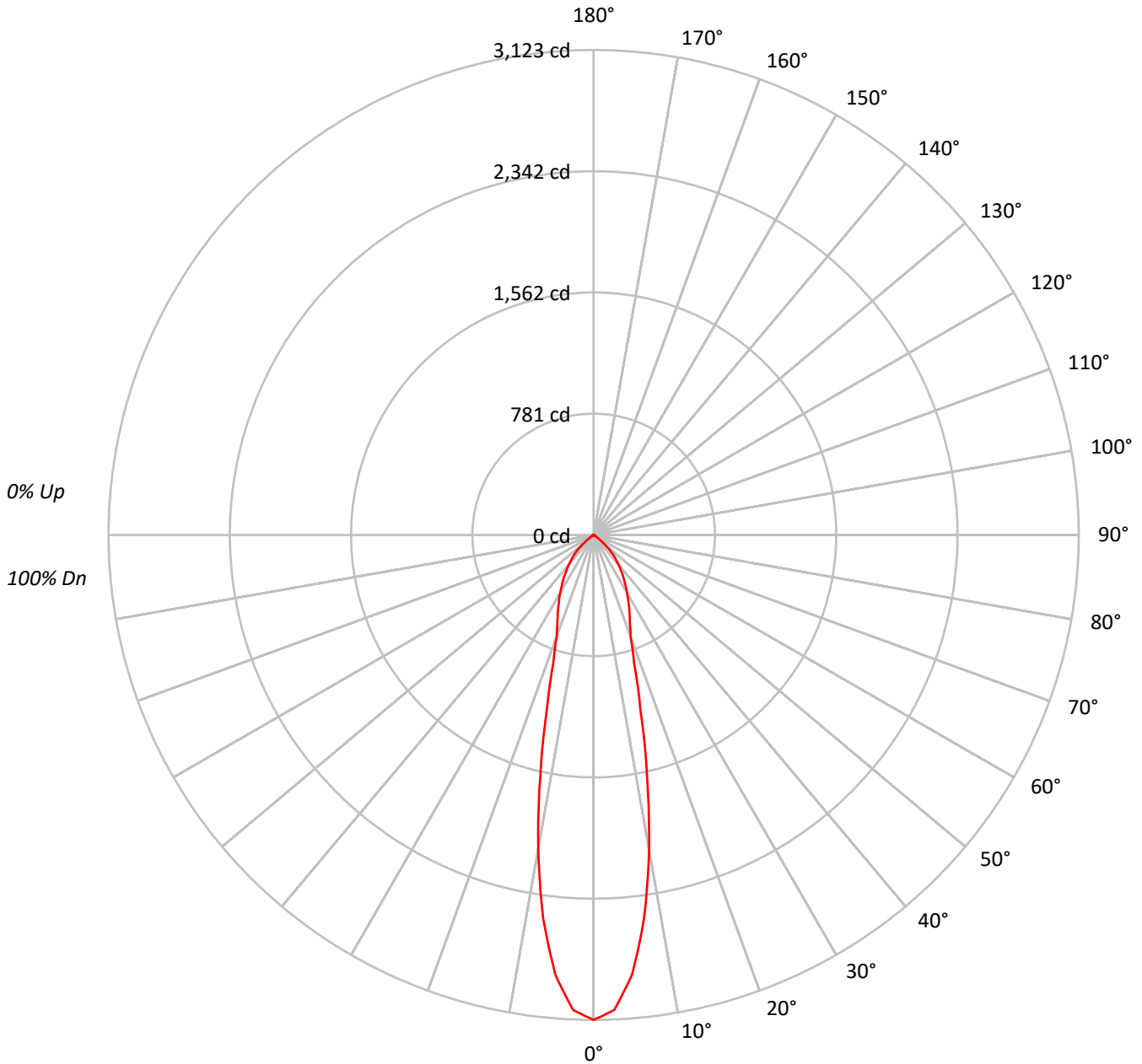
Lumens per Lamp: N/A
Luminaire Lumens: 1200.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (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	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	100	100	100	100		
	1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88	88	88	88	88	88		
	3	103	97	92	88	101	96	91	88	93	89	86	90	87	85	88	86	84	82	82	82	82	82	82		
	4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77	77	77	77	77	77		
	5	94	86	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72	72	72	72	72	72		
	6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68	68	68	68	68	68		
	7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64	64	64	64	64	64		
	8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61	61	61	61	61	61		
	9	78	69	63	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58	58	58	58	58	58		
	10	75	66	60	57	74	65	60	57	65	60	57	64	59	56	63	59	56	55	55	55	55	55	55		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	171225
5°	156284
10°	114416
15°	65914
20°	40528
25°	32966
30°	27200
35°	22285
40°	17726
45°	13668
50°	7275
55°	1873
60°	1140
65°	597
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13668 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	20.5
10°-20°	333.1	27.8
20°-30°	251.1	20.9
30°-40°	207.8	17.3
40°-50°	130.0	10.8
50°-60°	26.7	2.2
60°-70°	4.8	0.4
70°-80°	0.8	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°	829.9	69.2
0°-40°	1037.8	86.5
0°-60°	1194.5	99.5
0°-90°	1200.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1200.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3123	
5°	2840	246
15°	1161	333
25°	545	251
35°	333	208
45°	176	130
55°	20	27
65°	5	5
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3123.4
2.5°	3061.2
5°	2840.0
7.5°	2488.6
10°	2055.4
12.5°	1585.3
15°	1161.4
17.5°	862.9
20°	694.7
22.5°	608.3
25°	545.0
27.5°	485.0
30°	429.7
32.5°	379.1
35°	333.0
37.5°	286.9
40°	247.7
42.5°	209.7
45°	176.3
47.5°	127.9
50°	85.3
52.5°	40.3
55°	19.6
57.5°	13.8
60°	10.4
62.5°	6.9
65°	4.6
67.5°	2.3
70°	1.2
72.5°	1.2
75°	0.0
77.5°	1.2
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)