

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: P642006

Luminaire Tested: ML5612LSWFL5597FS1E - 593SNB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 593SNB - 900LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

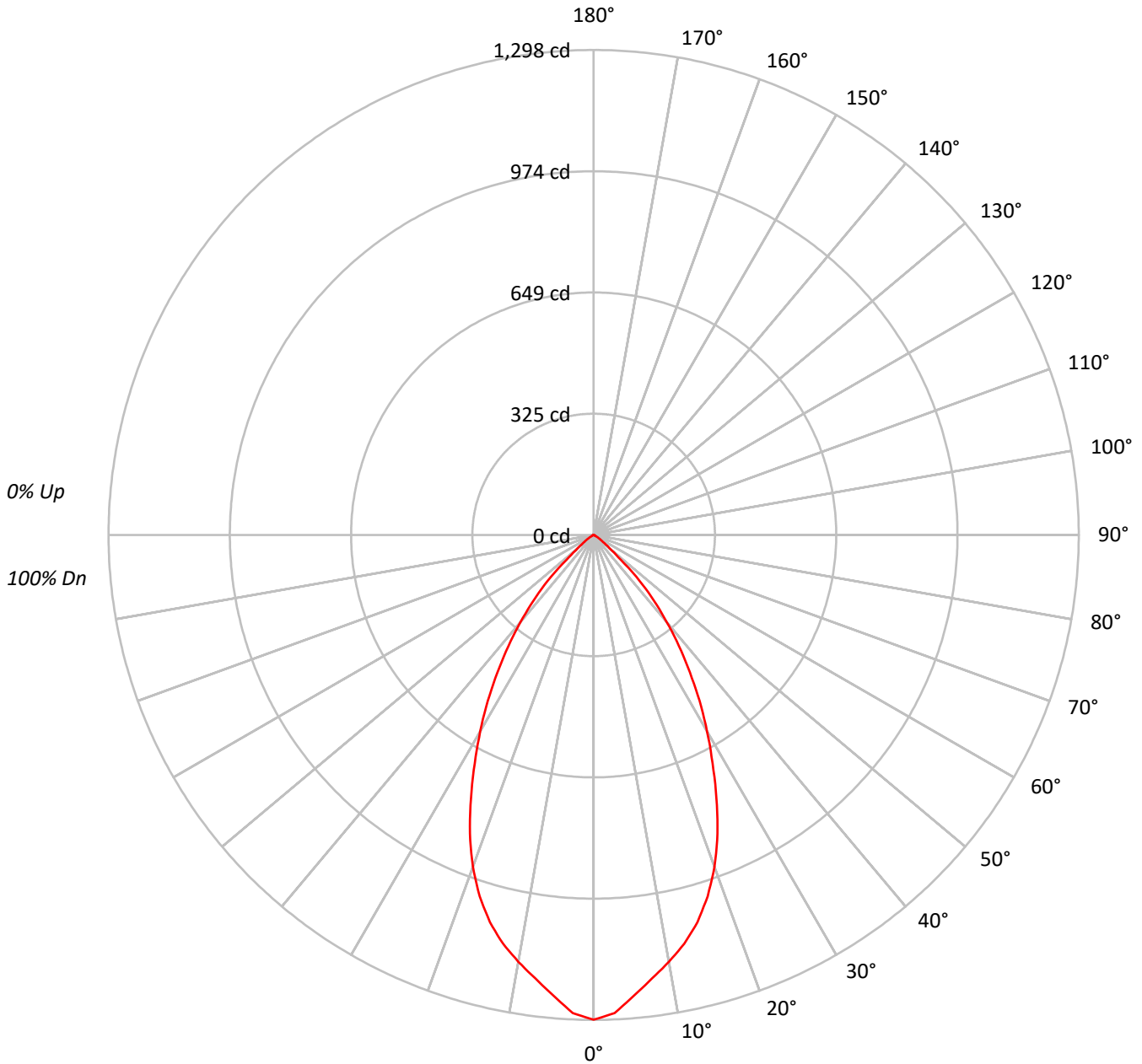
Lumens per Lamp: N/A
Luminaire Lumens: 1206.7 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93																
2	107	102	98	94	105	101	97	93	97	94	91	94	92	89	91	89	88	86			86																
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79			79																
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73			73																
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68			68																
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63			63																
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			58																
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54			54																
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51			51																
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			48																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	102426
5°	98063
10°	92984
15°	87667
20°	79387
25°	67678
30°	55303
35°	43222
40°	31379
45°	19492
50°	6705
55°	3152
60°	1200
65°	411
70°	254
75°	336
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19492 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	9.6
10°-20°	298.8	24.8
20°-30°	354.8	29.4
30°-40°	279.8	23.2
40°-50°	131.1	10.9
50°-60°	22.7	1.9
60°-70°	2.9	0.2
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°	769.4	63.8
0°-40°	1049.2	86.9
0°-60°	1203.0	99.7
0°-90°	1206.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1206.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1298	
5°	1238	116
15°	1073	299
25°	777	355
35°	448	280
45°	175	131
55°	23	23
65°	2	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1297.5
2.5°	1281.1
5°	1237.5
7.5°	1197.1
10°	1160.0
12.5°	1120.7
15°	1072.7
17.5°	1013.8
20°	945.0
22.5°	865.4
25°	777.0
27.5°	688.6
30°	606.7
32.5°	527.1
35°	448.5
37.5°	374.3
40°	304.5
42.5°	239.0
45°	174.6
47.5°	98.2
50°	54.6
52.5°	34.9
55°	22.9
57.5°	14.2
60°	7.6
62.5°	4.4
65°	2.2
67.5°	1.1
70°	1.1
72.5°	1.1
75°	1.1
77.5°	0.0
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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