

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: P641996

Luminaire Tested: ML5612LSWFL5597FS1E - 593SNB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641996
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 - 1200LM - 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

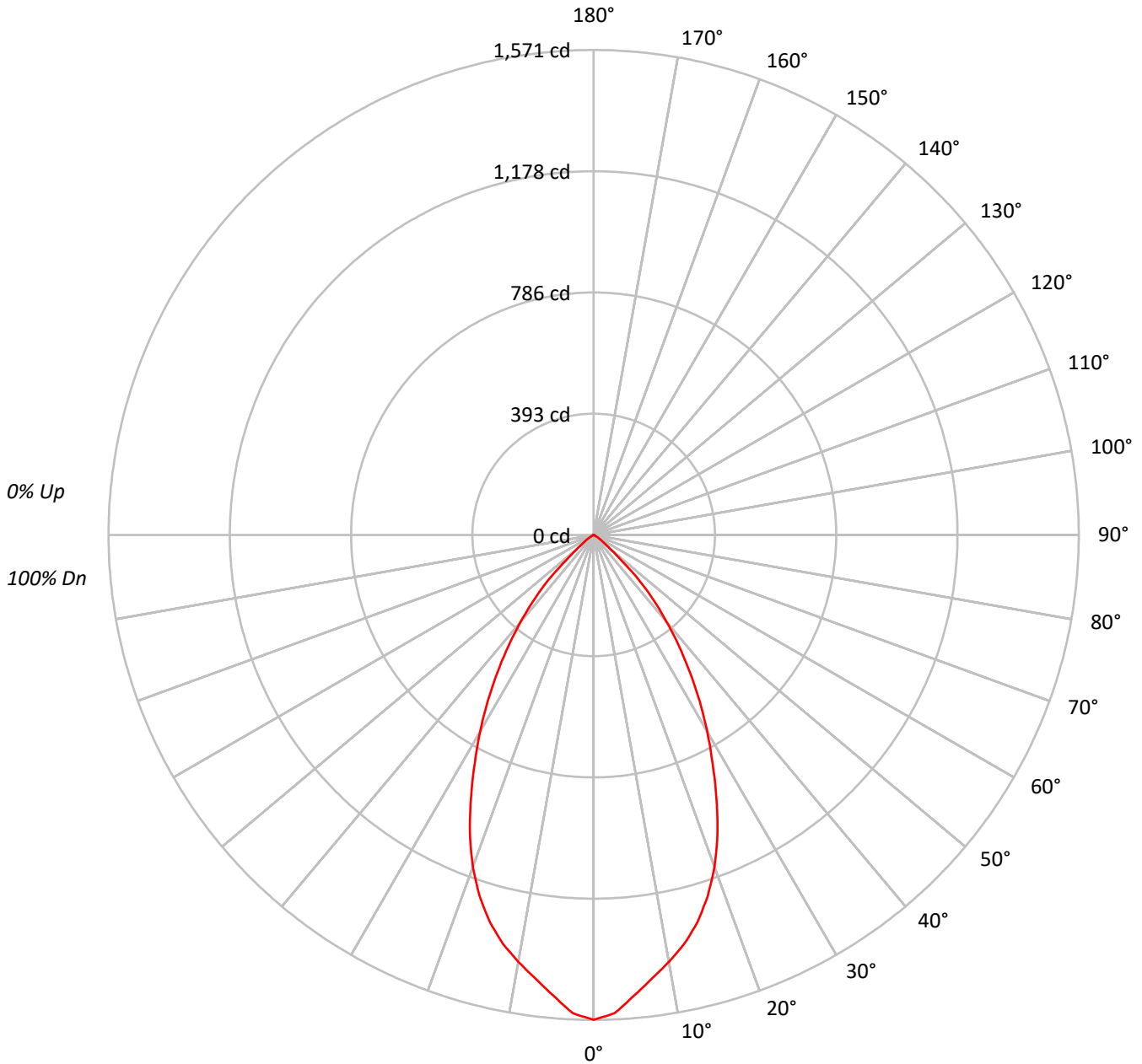
Lumens per Lamp: N/A
Luminaire Lumens: 1460.7 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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



TEST NUMBER: P641996
CATALOG NUMBER: ML5612LSWFL5597FS1E - 593SNB - 1200LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641996

CATALOG NUMBER: ML5612LSWFL5597FS1E - 593SNB - 1200LM - 2700K

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			
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°	123992
5°	118705
10°	112559
15°	106129
20°	96104
25°	81928
30°	66952
35°	52319
40°	37984
45°	23601
50°	8118
55°	3812
60°	1453
65°	486
70°	300
75°	397
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23601 cd/sqm



TEST NUMBER: P641996

CATALOG NUMBER: ML5612LSWFL5597FS1E - 593SNB - 1200LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.1	9.6
10°-20°	361.7	24.8
20°-30°	429.6	29.4
30°-40°	338.7	23.2
40°-50°	158.7	10.9
50°-60°	27.5	1.9
60°-70°	3.5	0.2
70°-80°	0.9	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°	931.4	63.8
0°-40°	1270.1	87.0
0°-60°	1456.4	99.7
0°-90°	1460.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1460.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1571	
5°	1498	140
15°	1299	362
25°	941	430
35°	543	339
45°	211	159
55°	28	28
65°	3	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P641996

CATALOG NUMBER: ML5612LSWFL5597FS1E - 593SNB - 1200LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1570.7
2.5°	1550.9
5°	1498.0
7.5°	1449.1
10°	1404.2
12.5°	1356.7
15°	1298.6
17.5°	1227.2
20°	1144.0
22.5°	1047.6
25°	940.6
27.5°	833.6
30°	734.5
32.5°	638.0
35°	542.9
37.5°	453.1
40°	368.6
42.5°	289.3
45°	211.4
47.5°	118.9
50°	66.1
52.5°	42.3
55°	27.7
57.5°	17.2
60°	9.2
62.5°	5.3
65°	2.6
67.5°	1.3
70°	1.3
72.5°	1.3
75°	1.3
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)