

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: P642161

Luminaire Tested: ML5612LSWFL5597FS1E - 693BB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642161
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-64)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 693BB - 1200LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

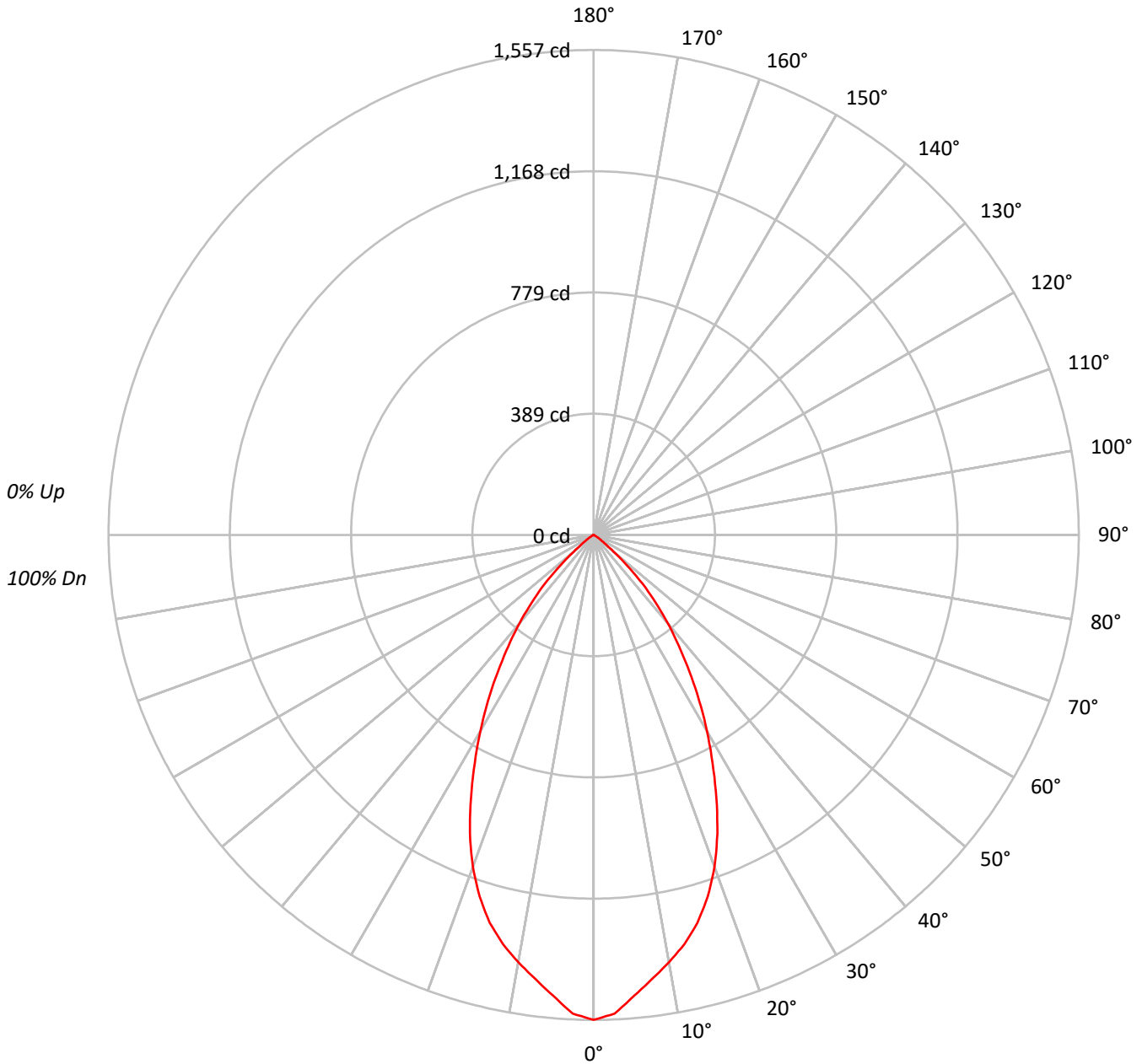
Lumens per Lamp: N/A
Luminaire Lumens: 1459.4 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P642161
CATALOG NUMBER: ML5612LSWFL5597FS1E - 693BB - 1200LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P642161

CATALOG NUMBER: ML5612LSWFL5597FS1E - 693BB - 1200LM - 2700K

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	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93																
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86			86																
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79			79																
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73			73																
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			67																
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62			62																
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58			58																
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54			54																
9	73	63	57	53	72	62	56	52	61	56	52	61	56	52	60	55	52	50			50																
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47			47																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	85344
5°	81741
10°	77537
15°	73128
20°	66150
25°	56356
30°	46007
35°	35817
40°	26478
45°	17211
50°	7104
55°	2657
60°	1162
65°	169
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17211 cd/sqm



TEST NUMBER: P642161

CATALOG NUMBER: ML5612LSWFL5597FS1E - 693BB - 1200LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	9.5
10°-20°	358.7	24.6
20°-30°	425.5	29.2
30°-40°	335.4	23.0
40°-50°	168.5	11.5
50°-60°	29.8	2.0
60°-70°	2.6	0.2
70°-80°	0.0	0.0
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°	923.2	63.3
0°-40°	1258.6	86.2
0°-60°	1456.9	99.8
0°-90°	1459.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1459.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1557	
5°	1485	139
15°	1288	359
25°	932	425
35°	535	335
45°	222	168
55°	28	30
65°	1	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P642161

CATALOG NUMBER: ML5612LSWFL5597FS1E - 693BB - 1200LM - 2700K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1556.8
2.5°	1538.3
5°	1485.4
7.5°	1437.8
10°	1392.9
12.5°	1345.3
15°	1288.5
17.5°	1217.1
20°	1133.9
22.5°	1037.4
25°	931.7
27.5°	826.0
30°	726.8
32.5°	630.4
35°	535.2
37.5°	449.3
40°	370.0
42.5°	293.4
45°	222.0
47.5°	144.0
50°	83.3
52.5°	43.6
55°	27.8
57.5°	17.2
60°	10.6
62.5°	4.0
65°	1.3
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)