

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: P641951

Luminaire Tested: ML5612LSWFL5597FS1E - 592SC - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 592SC - 1200LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

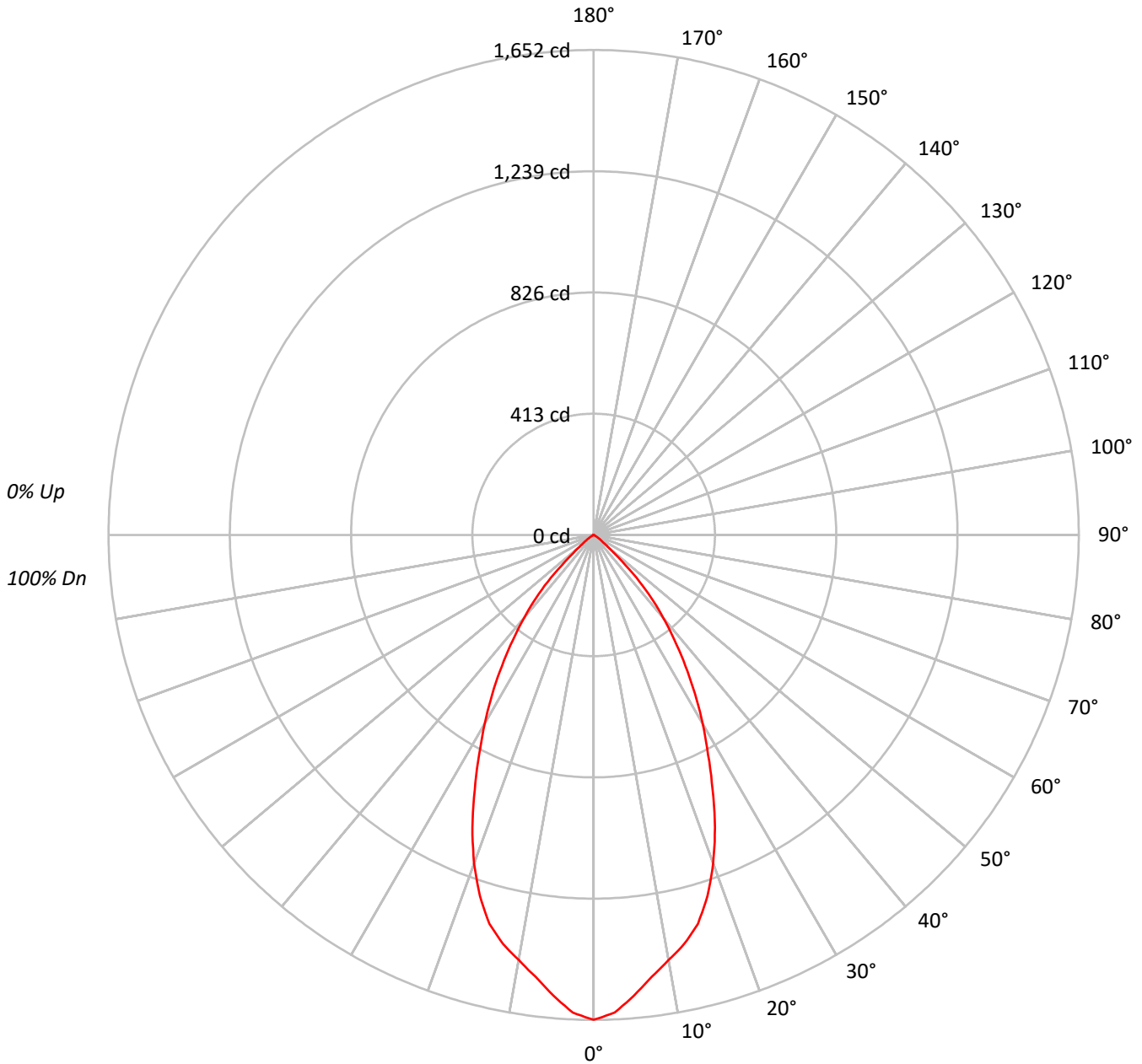
Lumens per Lamp: N/A
Luminaire Lumens: 1488.4 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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: P641951
CATALOG NUMBER: ML5612LSWFL5597FS1E - 592SC - 1200LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641951

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592SC - 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																			
1	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80																			
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74																			
5	91	82	76	72	89	82	76	72	80	75	71	78	74	70	76	73	70	68																			
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63																			
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59																			
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																			
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	130371
5°	124799
10°	117873
15°	112079
20°	100002
25°	83435
30°	67563
35°	52454
40°	37984
45°	23009
50°	7627
55°	3454
60°	1042
65°	243
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23009 cd/sqm



TEST NUMBER: P641951

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592SC - 1200LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	9.9
10°-20°	380.0	25.5
20°-30°	439.0	29.5
30°-40°	339.8	22.8
40°-50°	156.2	10.5
50°-60°	24.7	1.7
60°-70°	1.7	0.1
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°	966.0	64.9
0°-40°	1305.8	87.7
0°-60°	1486.7	99.9
0°-90°	1488.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1488.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1652	
5°	1575	147
15°	1371	380
25°	958	439
35°	544	340
45°	206	156
55°	25	25
65°	1	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P641951

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592SC - 1200LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1651.5
2.5°	1629.0
5°	1574.9
7.5°	1518.0
10°	1470.5
12.5°	1426.9
15°	1371.4
17.5°	1289.5
20°	1190.4
22.5°	1079.4
25°	957.9
27.5°	844.2
30°	741.2
32.5°	642.1
35°	544.3
37.5°	451.8
40°	368.6
42.5°	289.3
45°	206.1
47.5°	113.6
50°	62.1
52.5°	38.3
55°	25.1
57.5°	14.5
60°	6.6
62.5°	2.6
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)