

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: P641922

Luminaire Tested: ML5612LSWFL5597FS1E - 591WB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 591WB - 1200LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 5" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1532.4 lumens  
Efficiency: N/A  
Efficacy: 92.9 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

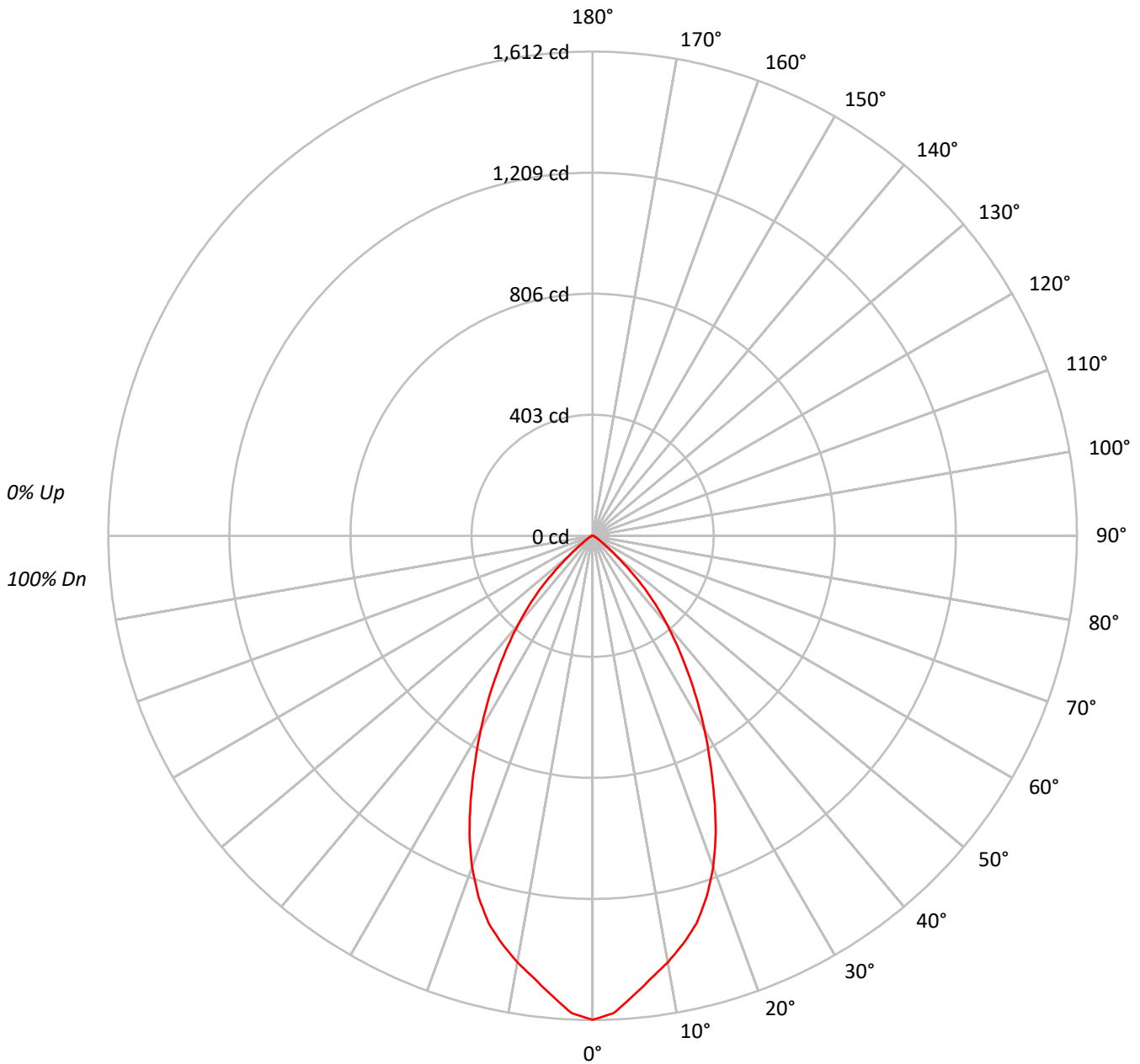
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78			78
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72			72
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	67			67
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	66	63	62			62
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57			57
8	76	66	60	56	75	66	60	55	65	59	55	64	59	55	63	58	55	53			53
9	73	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50			50
10	69	59	53	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47			47

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	127213
5°	121891
10°	115573
15°	109177
20°	98540
25°	83374
30°	67818
35°	52993
40°	39592
45°	26068
50°	12170
55°	5051
60°	3000
65°	1775
70°	1246
75°	1251
80°	1227
85°	1268

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26068 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.8	9.4
10°-20°	371.5	24.2
20°-30°	437.6	28.6
30°-40°	344.7	22.5
40°-50°	178.5	11.7
50°-60°	39.7	2.6
60°-70°	10.4	0.7
70°-80°	4.3	0.3
80°-90°	1.9	0.1
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°	952.9	62.2
0°-40°	1297.6	84.7
0°-60°	1515.8	98.9
0°-90°	1532.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1612	
5°	1538	144
15°	1336	371
25°	957	438
35°	550	345
45°	234	179
55°	37	40
65°	10	10
75°	4	4
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1611.5
2.5°	1591.2
5°	1538.2
7.5°	1486.6
10°	1441.8
12.5°	1391.6
15°	1335.9
17.5°	1261.3
20°	1173.0
22.5°	1071.2
25°	957.2
27.5°	845.8
30°	744.0
32.5°	644.9
35°	549.9
37.5°	464.3
40°	384.2
42.5°	308.2
45°	233.5
47.5°	154.8
50°	99.1
52.5°	59.7
55°	36.7
57.5°	24.4
60°	19.0
62.5°	13.6
65°	9.5
67.5°	6.8
70°	5.4
72.5°	4.1
75°	4.1
77.5°	4.1
80°	2.7
82.5°	2.7
85°	1.4
87.5°	1.4
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)