

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: P642148

Luminaire Tested: ML5612LSWFL5597FS1E - 692W - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642148  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-62)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 692W - 1200LM - 3500K  
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

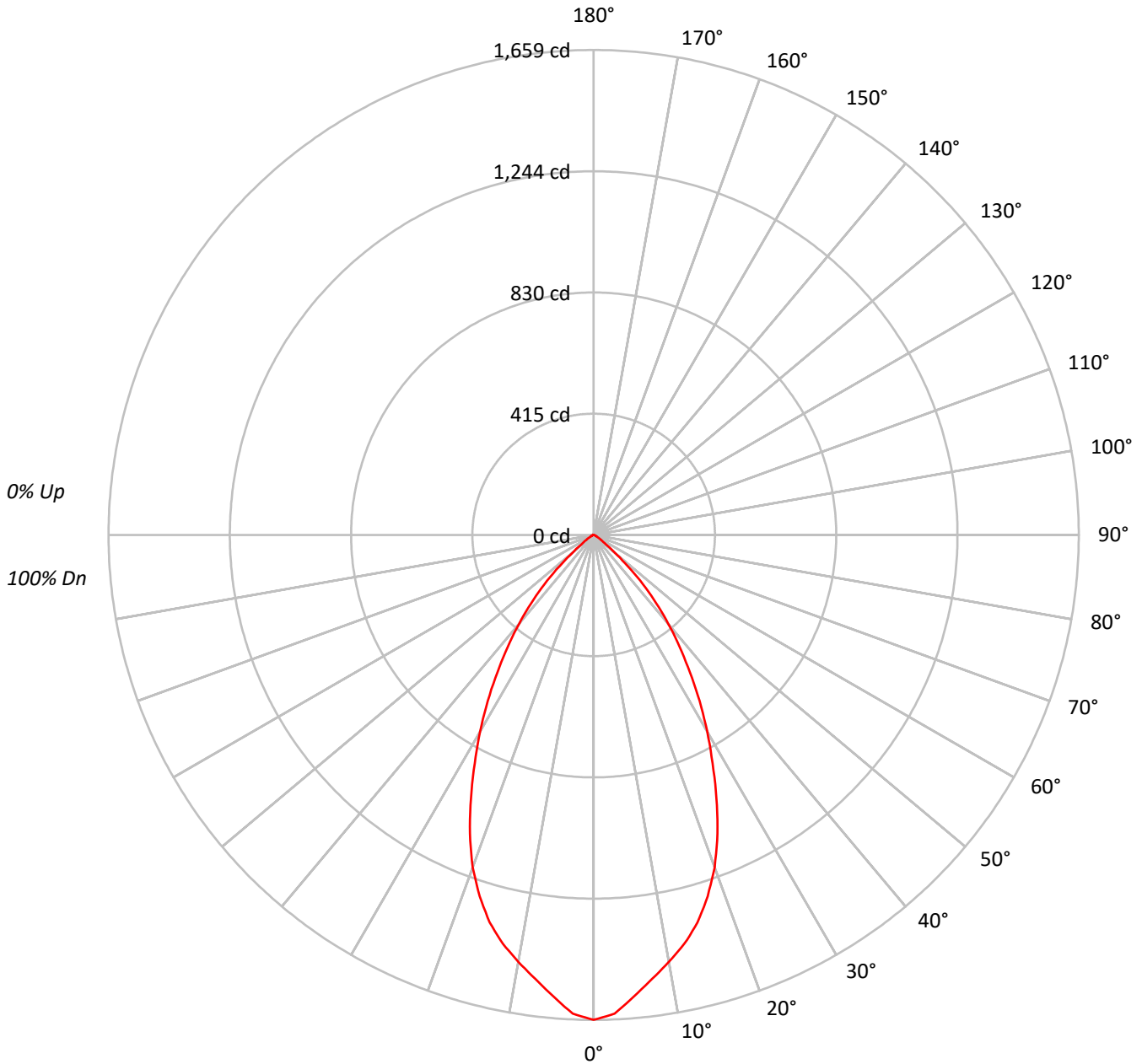
Lumens per Lamp: N/A  
Luminaire Lumens: 1576.9 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



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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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	94	105	100	96	93	97	94	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	83	80	79			79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72			72
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67			67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62			62
7	81	71	65	60	79	70	64	60	69	63	60	68	63	59	67	62	59	57			57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			53
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50			50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47			47

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

	0°
0°	90930
5°	87211
10°	82547
15°	77906
20°	70560
25°	60082
30°	49096
35°	38374
40°	28453
45°	18599
50°	7974
55°	3336
60°	1831
65°	1090
70°	898
75°	890
80°	884
85°	881

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18599 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	9.4
10°-20°	382.1	24.2
20°-30°	453.7	28.8
30°-40°	359.2	22.8
40°-50°	182.5	11.6
50°-60°	37.1	2.4
60°-70°	8.9	0.6
70°-80°	4.1	0.3
80°-90°	1.1	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°	983.9	62.4
0°-40°	1343.1	85.2
0°-60°	1562.8	99.1
0°-90°	1576.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1576.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1659	
5°	1585	148
15°	1373	382
25°	993	454
35°	573	359
45°	240	183
55°	35	37
65°	8	9
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1658.7
2.5°	1639.2
5°	1584.8
7.5°	1531.8
10°	1482.9
12.5°	1432.7
15°	1372.7
17.5°	1296.0
20°	1209.5
22.5°	1106.3
25°	993.3
27.5°	880.3
30°	775.6
32.5°	673.8
35°	573.4
37.5°	482.7
40°	397.6
42.5°	316.7
45°	239.9
47.5°	157.6
50°	93.5
52.5°	53.0
55°	34.9
57.5°	25.1
60°	16.7
62.5°	11.2
65°	8.4
67.5°	5.6
70°	5.6
72.5°	4.2
75°	4.2
77.5°	2.8
80°	2.8
82.5°	1.4
85°	1.4
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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(END OF REPORT)