

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: P641444

Luminaire Tested: ML5612LSVWFL7597FS1E - 692SC - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641444  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-83)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 692SC - 1200LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" SPECULAR CLEAR TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

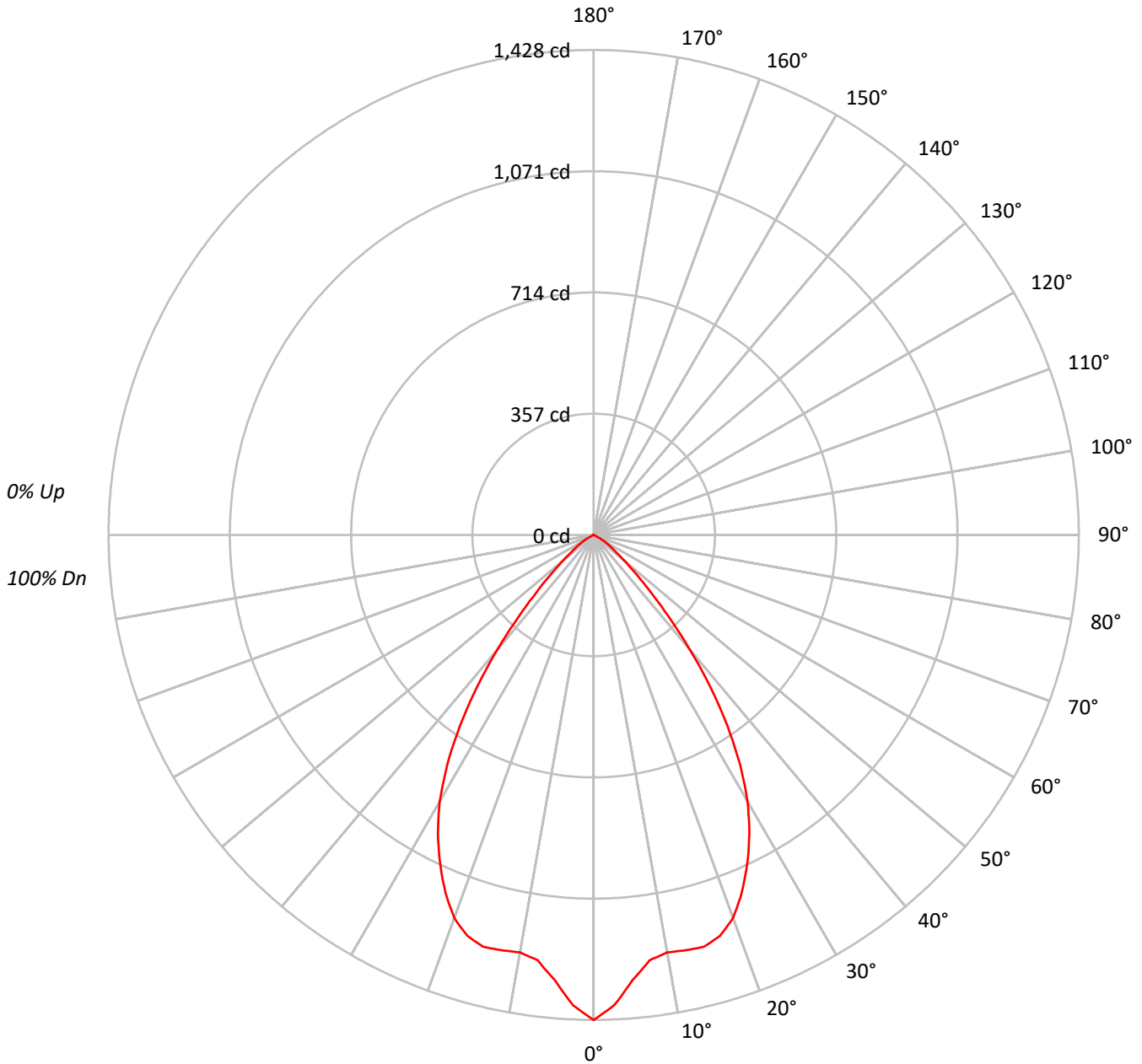
Lumens per Lamp: N/A  
Luminaire Lumens: 1642.6 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.01  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	105	103	104	102	100	100	99	97	97	95	94				92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86				85
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79				78
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73				71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67				65
6	84	74	68	63	83	74	67	63	72	66	62	70	66	62	69	65	61				60
7	79	69	63	58	78	68	62	58	67	62	57	66	61	57	65	60	57				55
8	75	65	58	53	74	64	58	53	63	57	53	62	57	53	61	56	53				51
9	71	60	54	50	70	60	54	49	59	53	49	58	53	49	57	52	49				47
10	67	57	50	46	66	56	50	46	55	50	46	54	49	46	54	49	46				44

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

	0°
0°	78305
5°	72402
10°	69477
15°	71260
20°	70012
25°	64685
30°	57332
35°	45936
40°	31495
45°	18165
50°	9867
55°	5887
60°	3125
65°	778
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18165 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.5	7.5
10°-20°	351.6	21.4
20°-30°	488.4	29.7
30°-40°	422.1	25.7
40°-50°	190.8	11.6
50°-60°	57.6	3.5
60°-70°	8.6	0.5
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°	963.5	58.7
0°-40°	1385.6	84.4
0°-60°	1634.0	99.5
0°-90°	1642.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1642.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1428	
5°	1316	123
15°	1256	352
25°	1069	488
35°	686	422
45°	234	191
55°	62	58
65°	6	9
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1428.4
2.5°	1386.3
5°	1315.7
7.5°	1263.1
10°	1248.1
12.5°	1252.6
15°	1255.6
17.5°	1237.6
20°	1200.1
22.5°	1140.0
25°	1069.4
27.5°	992.8
30°	905.7
32.5°	802.0
35°	686.4
37.5°	563.2
40°	440.1
42.5°	325.9
45°	234.3
47.5°	165.2
50°	115.7
52.5°	82.6
55°	61.6
57.5°	43.6
60°	28.5
62.5°	13.5
65°	6.0
67.5°	1.5
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

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— 0°-180°

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(END OF REPORT)