

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: P641208

Luminaire Tested: ML5612LSNFL2597FS1E - 694WB - 600LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 694WB - 600LM - 3500K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

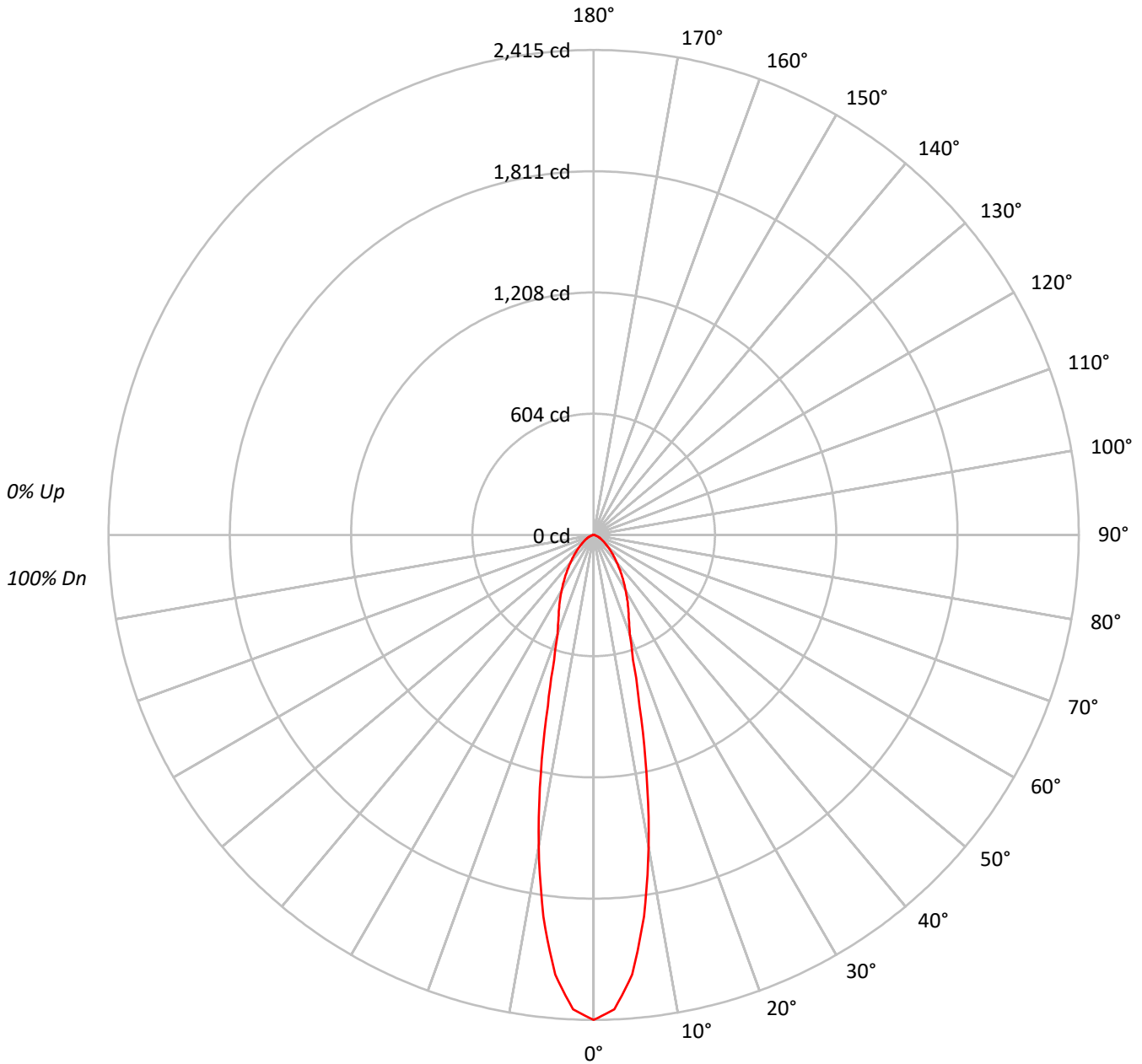
Lumens per Lamp: N/A  
Luminaire Lumens: 983.9 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
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	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	78	94	87	81	77	85	80	76	82	78	75	81	77	74	73	73	73	73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68	68	68	68
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64	64	64	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60	60	60	60
8	79	69	63	59	77	69	63	59	67	62	58	66	62	58	65	61	58	57	57	57	57
9	75	66	60	56	74	65	60	56	64	59	55	63	59	55	62	58	55	54	54	54	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51	51	51	51

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

	0°
0°	132396
5°	120894
10°	87741
15°	49955
20°	30598
25°	24667
30°	20123
35°	16169
40°	12788
45°	10094
50°	7889
55°	6184
60°	4923
65°	3956
70°	2885
75°	1525
80°	1137
85°	566

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10094 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.4	19.3
10°-20°	253.5	25.8
20°-30°	187.9	19.1
30°-40°	151.7	15.4
40°-50°	101.5	10.3
50°-60°	58.9	6.0
60°-70°	30.8	3.1
70°-80°	9.0	0.9
80°-90°	1.2	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°	630.8	64.1
0°-40°	782.4	79.5
0°-60°	942.9	95.8
0°-90°	983.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	983.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2415	
5°	2197	189
15°	880	253
25°	408	188
35°	242	152
45°	130	102
55°	65	59
65°	30	31
75°	7	9
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2415.1
2.5°	2364.8
5°	2196.9
7.5°	1916.6
10°	1576.2
12.5°	1214.3
15°	880.2
17.5°	652.1
20°	524.5
22.5°	457.2
25°	407.8
27.5°	361.1
30°	317.9
32.5°	278.4
35°	241.6
37.5°	208.4
40°	178.7
42.5°	153.6
45°	130.2
47.5°	109.6
50°	92.5
52.5°	77.2
55°	64.7
57.5°	53.9
60°	44.9
62.5°	37.7
65°	30.5
67.5°	25.1
70°	18.0
72.5°	11.7
75°	7.2
77.5°	4.5
80°	3.6
82.5°	1.8
85°	0.9
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)