

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P644051

Luminaire Tested: ML5615LSWFL559FS1E - 694WB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P644051  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-67)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 694WB - 1200LM - 2700K  
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

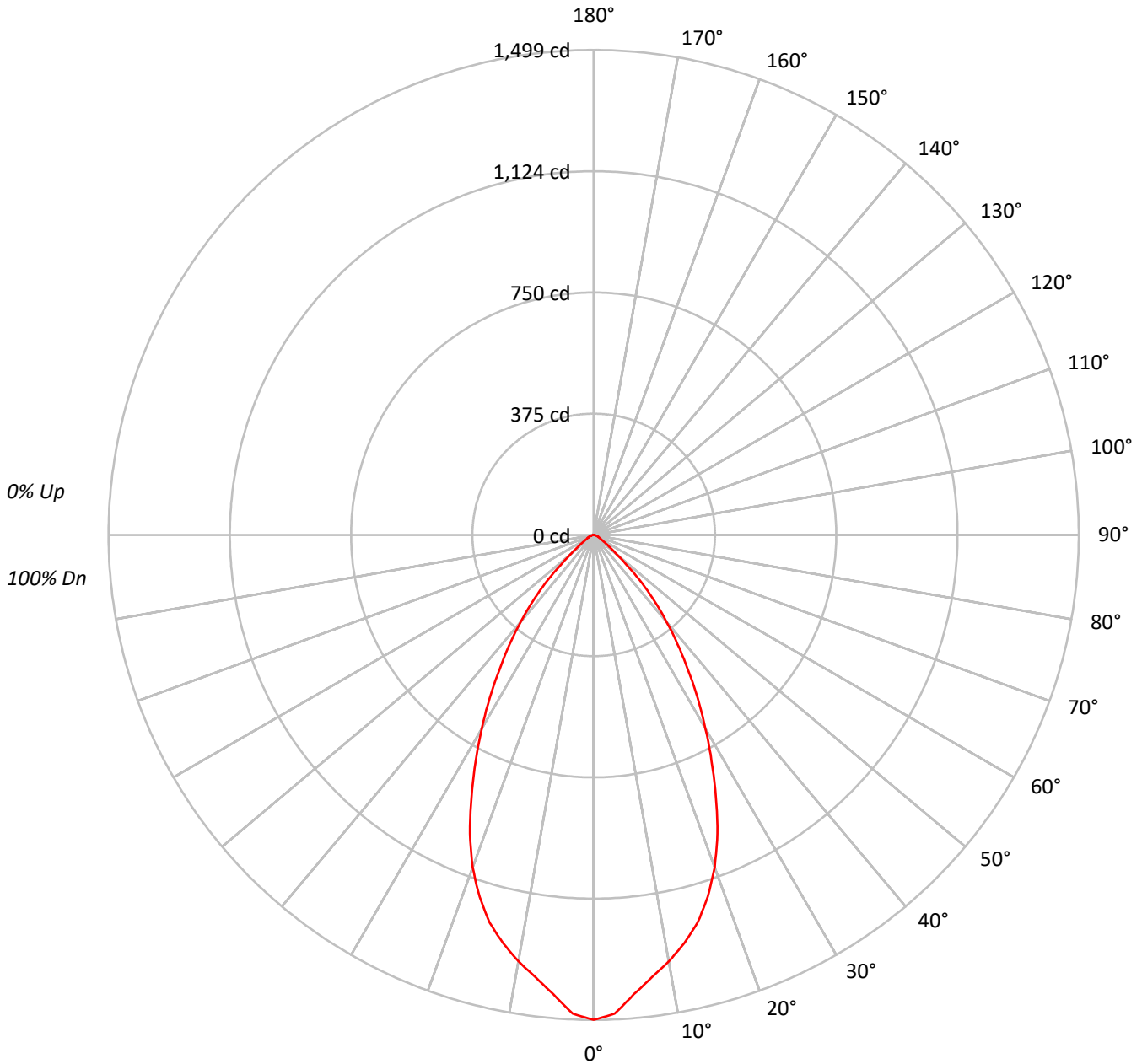
Lumens per Lamp: N/A  
Luminaire Lumens: 1438.0 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.4  
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	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	110	107	105	110	108	105	103	104	102	100	100	98	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	90	85	82	87	84	81	85	82	79	78																																				
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72																																				
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																																				
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61																																				
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57																																				
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																																				
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																																				
10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46																																				

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

	0°
0°	82164
5°	78439
10°	74492
15°	70420
20°	63752
25°	54009
30°	43716
35°	33943
40°	25068
45°	16475
50°	7983
55°	4234
60°	2916
65°	2296
70°	2020
75°	1334
80°	789
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16475 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.5	9.3
10°-20°	345.3	24.0
20°-30°	407.9	28.4
30°-40°	318.1	22.1
40°-50°	162.6	11.3
50°-60°	44.4	3.1
60°-70°	18.3	1.3
70°-80°	7.3	0.5
80°-90°	0.7	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°	886.6	61.7
0°-40°	1204.7	83.8
0°-60°	1411.7	98.2
0°-90°	1438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1438.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1499	
5°	1425	133
15°	1241	345
25°	893	408
35°	507	318
45°	212	163
55°	44	44
65°	18	18
75°	6	7
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1498.8
2.5°	1481.1
5°	1425.4
7.5°	1378.6
10°	1338.2
12.5°	1292.6
15°	1240.8
17.5°	1172.5
20°	1092.8
22.5°	999.2
25°	892.9
27.5°	789.2
30°	690.6
32.5°	598.2
35°	507.2
37.5°	426.2
40°	350.3
42.5°	279.5
45°	212.5
47.5°	140.4
50°	93.6
52.5°	63.2
55°	44.3
57.5°	32.9
60°	26.6
62.5°	21.5
65°	17.7
67.5°	15.2
70°	12.6
72.5°	8.9
75°	6.3
77.5°	5.1
80°	2.5
82.5°	1.3
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)