

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: P642851

Luminaire Tested: ML5615LSNFL259FS1E - 594WB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642851  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 594WB - 1200LM - 2700K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

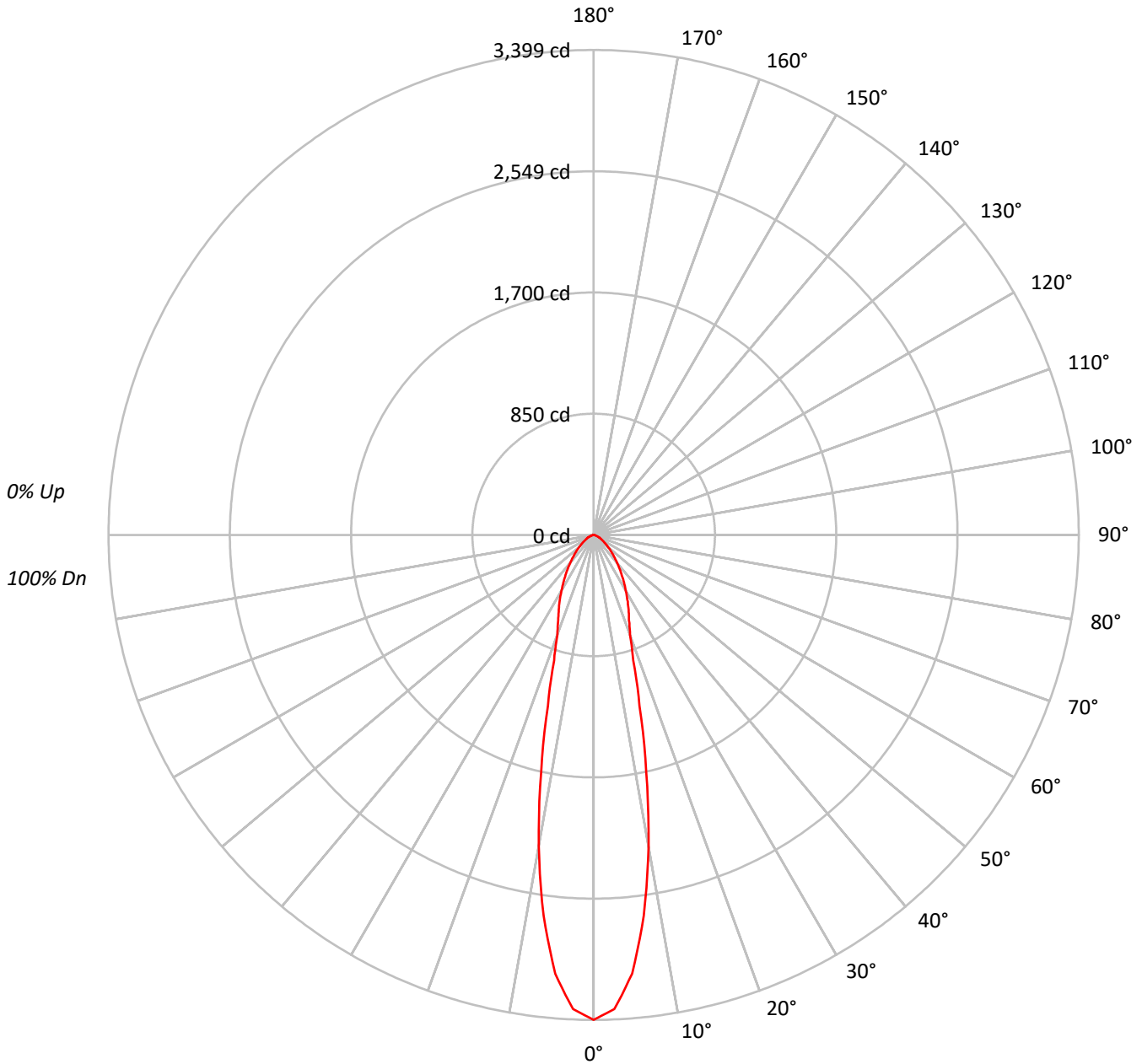
Lumens per Lamp: N/A  
Luminaire Lumens: 1392.5 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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									
RC	80									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	98	97	97	95	94	92			92																
2	107	102	97	94	105	100	96	93	97	93	90	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	78			78																
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73			73																
5	91	82	76	72	89	81	75	71	79	74	71	78	73	70	76	72	69	68			68																
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	63			63																
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60			60																
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56			56																
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54			54																
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51			51																

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

	0°
0°	268328
5°	244598
10°	177455
15°	101315
20°	62594
25°	50353
30°	41046
35°	33035
40°	26329
45°	20765
50°	16162
55°	12703
60°	10183
65°	8275
70°	5839
75°	3081
80°	2318
85°	1177

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20765 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.1	19.1
10°-20°	356.8	25.6
20°-30°	266.4	19.1
30°-40°	215.6	15.5
40°-50°	144.9	10.4
50°-60°	84.1	6.0
60°-70°	44.2	3.2
70°-80°	12.6	0.9
80°-90°	1.7	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°	889.4	63.9
0°-40°	1104.9	79.3
0°-60°	1334.0	95.8
0°-90°	1392.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1392.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3399	
5°	3087	266
15°	1240	357
25°	578	266
35°	343	216
45°	186	145
55°	92	84
65°	44	44
75°	10	13
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3399.1
2.5°	3325.7
5°	3086.7
7.5°	2692.0
10°	2213.8
12.5°	1700.2
15°	1239.7
17.5°	922.2
20°	745.1
22.5°	647.7
25°	578.1
27.5°	512.3
30°	450.3
32.5°	394.7
35°	342.8
37.5°	297.3
40°	255.5
42.5°	218.8
45°	186.0
47.5°	156.9
50°	131.6
52.5°	110.1
55°	92.3
57.5°	77.2
60°	64.5
62.5°	53.1
65°	44.3
67.5°	36.7
70°	25.3
72.5°	16.4
75°	10.1
77.5°	6.3
80°	5.1
82.5°	2.5
85°	1.3
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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Scaled Data Report



(END OF REPORT)