

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: P642892

Luminaire Tested: ML5615LSNFL259FS1E - 691WB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642892  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 691WB - 900LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

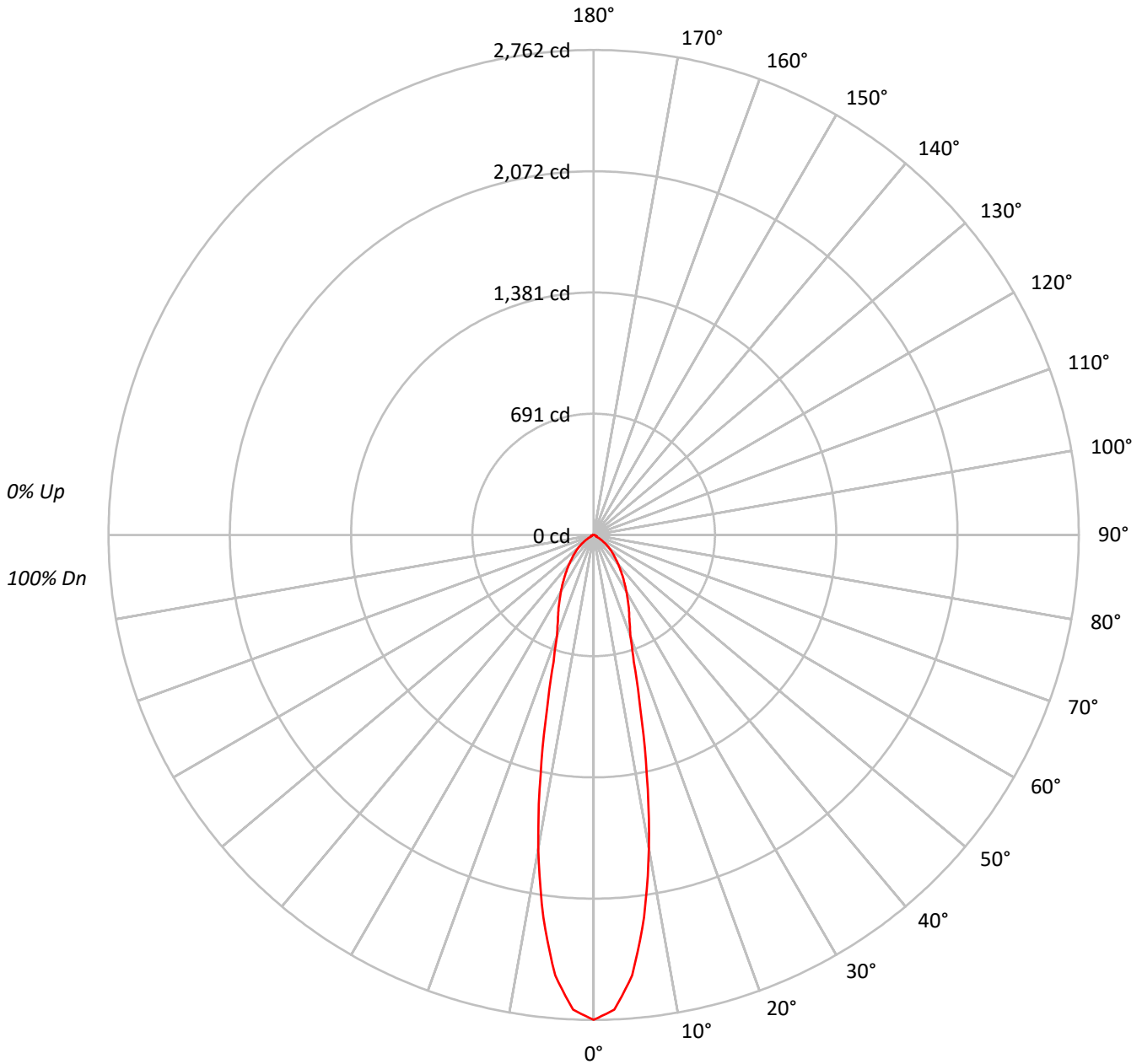
Lumens per Lamp: N/A  
Luminaire Lumens: 1116.0 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.5  
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	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	101	100	99	98	97	96	95	93					93			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86					86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80					80			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74					74			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69					69			
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65					65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61					61			
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58					58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55					55			
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	57	53	52					52			

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

	0°
0°	151386
5°	138553
10°	100939
15°	58020
20°	35522
25°	28744
30°	23567
35°	19207
40°	15458
45°	12358
50°	9740
55°	6289
60°	2478
65°	1868
70°	1491
75°	1313
80°	1294
85°	1321

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12358 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	217.1	19.5
10°-20°	293.1	26.3
20°-30°	219.0	19.6
30°-40°	180.0	16.1
40°-50°	124.1	11.1
50°-60°	59.5	5.3
60°-70°	14.4	1.3
70°-80°	6.6	0.6
80°-90°	2.2	0.2
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°	729.2	65.3
0°-40°	909.2	81.5
0°-60°	1092.8	97.9
0°-90°	1116.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1116.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2762	
5°	2518	217
15°	1022	293
25°	475	219
35°	287	180
45°	159	124
55°	66	60
65°	14	14
75°	6	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2761.5
2.5°	2706.0
5°	2517.8
7.5°	2195.9
10°	1813.3
12.5°	1397.7
15°	1022.3
17.5°	757.0
20°	608.9
22.5°	531.7
25°	475.2
27.5°	421.7
30°	372.3
32.5°	327.1
35°	287.0
37.5°	249.9
40°	216.0
42.5°	186.2
45°	159.4
47.5°	135.8
50°	114.2
52.5°	92.6
55°	65.8
57.5°	42.2
60°	22.6
62.5°	16.5
65°	14.4
67.5°	11.3
70°	9.3
72.5°	7.2
75°	6.2
77.5°	5.1
80°	4.1
82.5°	3.1
85°	2.1
87.5°	1.0
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)