

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: P642889

Luminaire Tested: ML5615LSNFL259FS1E - 691WB - 1500LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642889  
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 - 1500LM - 4000K  
Description: ML56 RR, 25D TIR OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

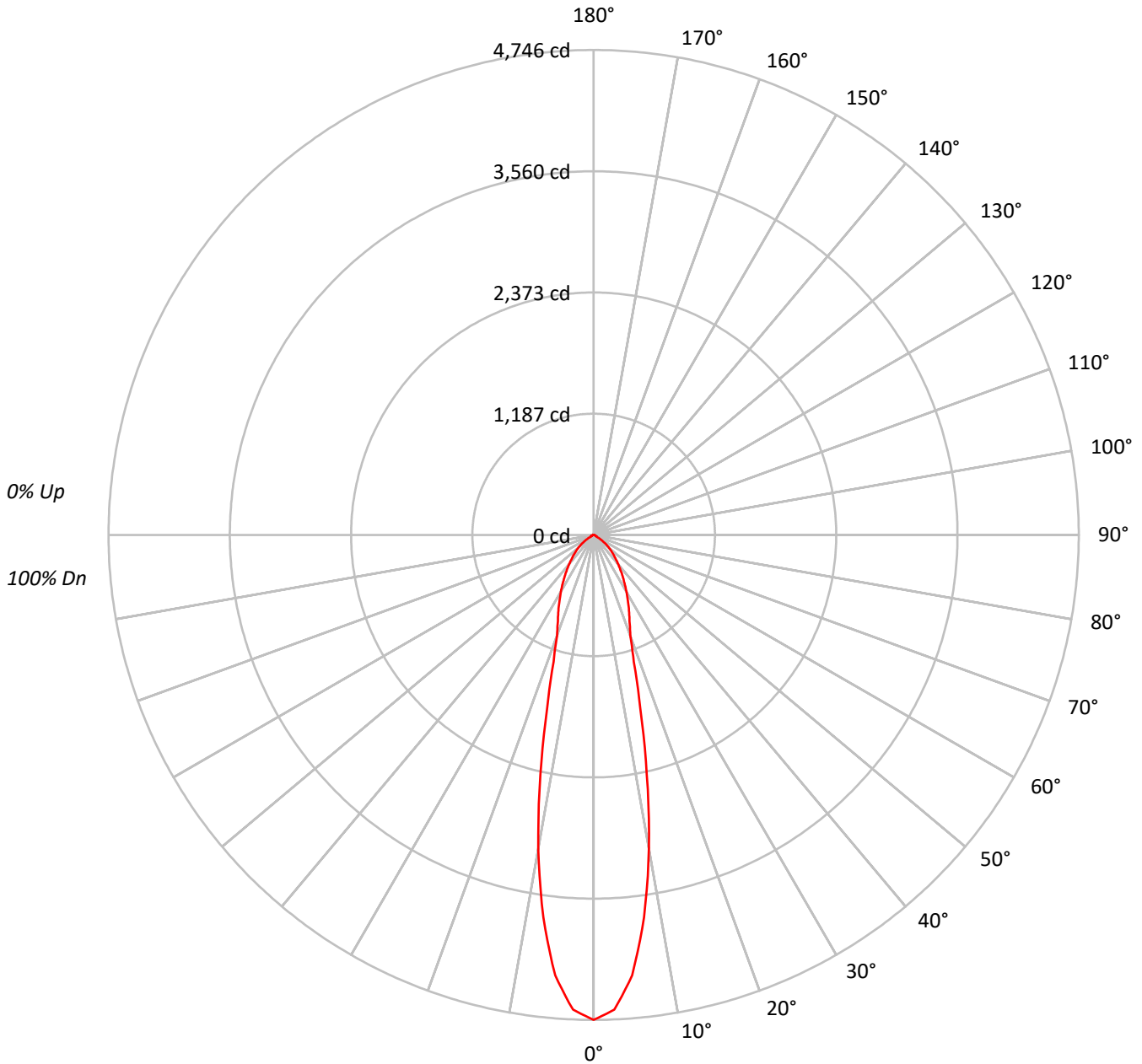
Lumens per Lamp: N/A  
Luminaire Lumens: 1917.9 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.1  
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																			
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	91	94	92	90	92	89	88	86																			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	86	84	81	80																			
4	97	89	83	79	95	88	82	78	86	81	77	84	80	77	82	78	76	74																			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	69	66	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58																			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	63	59	56	55																			
10	73	63	58	54	72	63	58	54	62	57	54	61	57	54	61	57	53	52																			

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

	0°
0°	260171
5°	238113
10°	173466
15°	99717
20°	61045
25°	49394
30°	40506
35°	33006
40°	26564
45°	21243
50°	16733
55°	10810
60°	4265
65°	3204
70°	2549
75°	2245
80°	2241
85°	2201

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21243 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	373.1	19.5
10°-20°	503.8	26.3
20°-30°	376.3	19.6
30°-40°	309.3	16.1
40°-50°	213.2	11.1
50°-60°	102.3	5.3
60°-70°	24.6	1.3
70°-80°	11.4	0.6
80°-90°	3.9	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°	1253.2	65.3
0°-40°	1562.5	81.5
0°-60°	1878.0	97.9
0°-90°	1917.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1917.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4746	
5°	4327	373
15°	1757	504
25°	817	376
35°	493	309
45°	274	213
55°	113	102
65°	25	25
75°	11	11
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4745.9
2.5°	4650.5
5°	4327.0
7.5°	3773.8
10°	3116.2
12.5°	2402.1
15°	1757.0
17.5°	1300.9
20°	1046.4
22.5°	913.8
25°	816.6
27.5°	724.7
30°	639.9
32.5°	562.1
35°	493.2
37.5°	429.5
40°	371.2
42.5°	319.9
45°	274.0
47.5°	233.3
50°	196.2
52.5°	159.1
55°	113.1
57.5°	72.5
60°	38.9
62.5°	28.3
65°	24.7
67.5°	19.4
70°	15.9
72.5°	12.4
75°	10.6
77.5°	8.8
80°	7.1
82.5°	5.3
85°	3.5
87.5°	1.8
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)