

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: P642955

Luminaire Tested: ML5615LSNFL259FS1E - 693BB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642955  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 693BB - 900LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 6" BLACK BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1135.5 lumens  
Efficiency: N/A  
Efficacy: 108.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

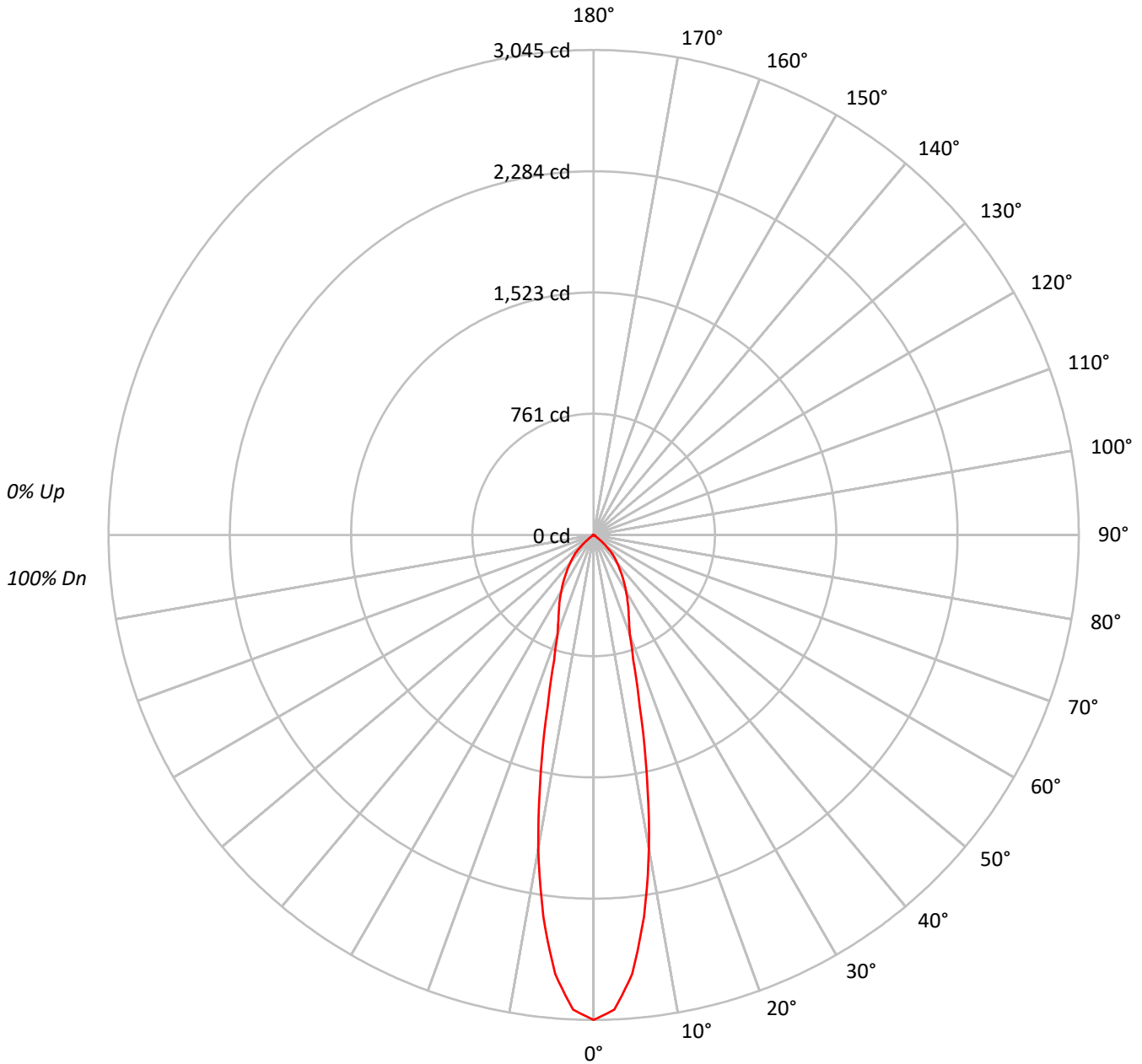
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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									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	0																			
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																												
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88																												
3	103	97	92	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82																												
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77																												
5	94	86	81	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73																												
6	90	81	76	72	88	80	75	71	79	74	71	78	74	70	76	73	70	69																												
7	86	77	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65																												
8	82	73	68	64	81	73	67	64	72	67	63	71	66	63	70	66	63	62																												
9	79	70	64	60	78	69	64	60	68	64	60	67	63	60	67	63	60	59																												
10	76	67	61	58	75	66	61	57	65	61	57	65	60	57	64	60	57	56																												

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

	0°
0°	166938
5°	152294
10°	111360
15°	63355
20°	38573
25°	31248
30°	25643
35°	20713
40°	16366
45°	12443
50°	6311
55°	1415
60°	877
65°	441
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12443 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.1	21.1
10°-20°	320.8	28.2
20°-30°	237.9	21.0
30°-40°	194.1	17.1
40°-50°	118.6	10.4
50°-60°	21.5	1.9
60°-70°	3.5	0.3
70°-80°	0.0	0.0
80°-90°	0.0	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°	797.8	70.3
0°-40°	992.0	87.4
0°-60°	1132.1	99.7
0°-90°	1135.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1135.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3045	
5°	2768	239
15°	1116	321
25°	517	238
35°	310	194
45°	160	119
55°	15	21
65°	3	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3045.2
2.5°	2983.8
5°	2767.5
7.5°	2418.2
10°	2000.5
12.5°	1535.1
15°	1116.3
17.5°	823.9
20°	661.2
22.5°	576.9
25°	516.6
27.5°	458.6
30°	405.1
32.5°	356.2
35°	309.5
37.5°	267.4
40°	228.7
42.5°	194.6
45°	160.5
47.5°	114.9
50°	74.0
52.5°	31.9
55°	14.8
57.5°	10.2
60°	8.0
62.5°	5.7
65°	3.4
67.5°	1.1
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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)