

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: P643653

Luminaire Tested: ML5615LSVWFL9FS1E - 693SNB - 1500LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-111)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 693SNB - 1500LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 6" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

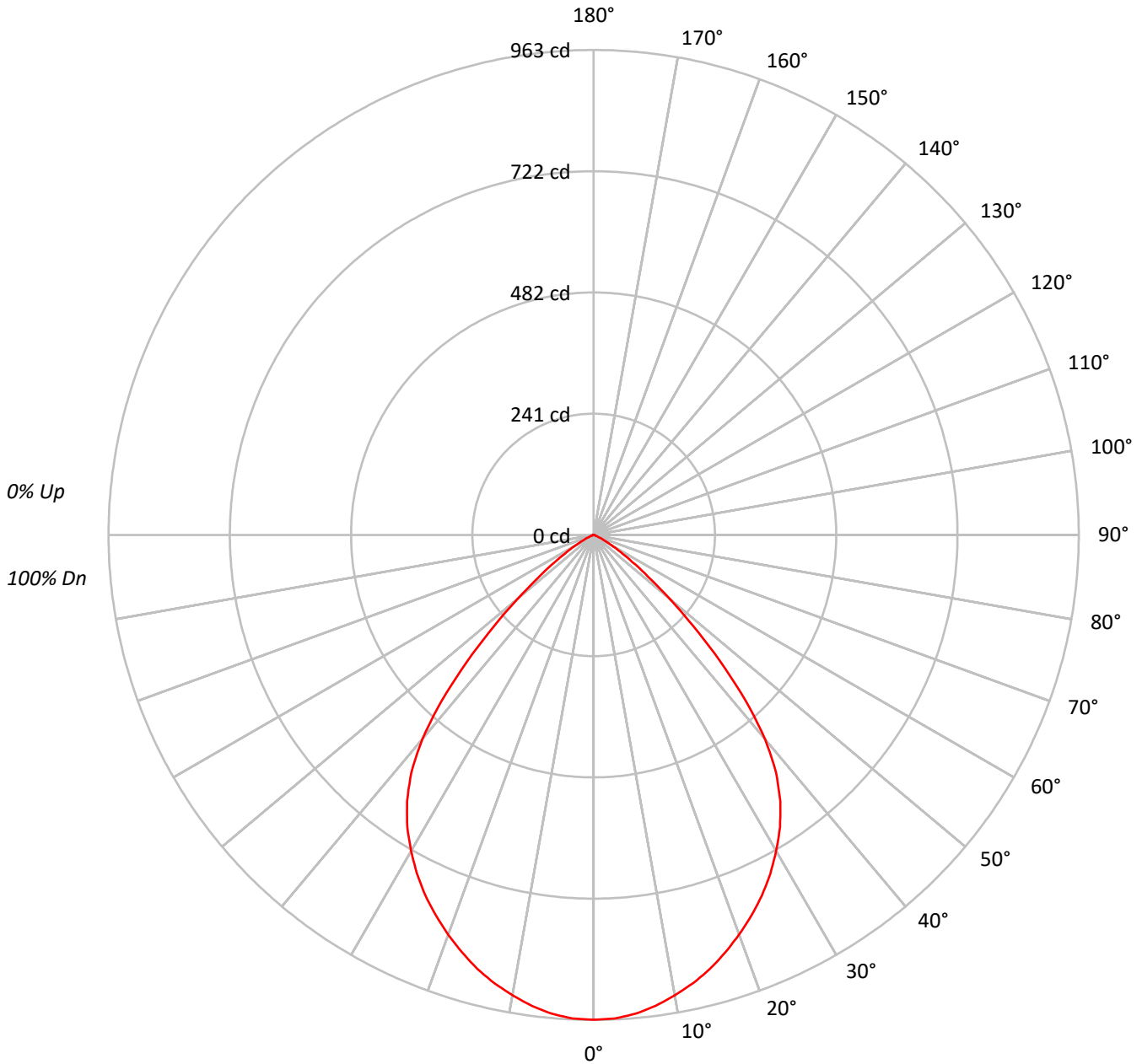
Lumens per Lamp: N/A  
Luminaire Lumens: 1487.1 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.1  
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	100	100	100	100		
	1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	91	91	91	91	91		
	2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82	82	82	82		
	3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74	74	74	74	74	74		
	4	92	83	77	72	90	82	76	71	80	75	70	78	73	69	76	72	69	67	67	67	67	67	67		
	5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60	60	60	60	60	60		
	6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55	55	55	55	55	55		
	7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50	50	50	50	50	50		
	8	71	60	53	48	70	59	53	48	58	52	48	57	52	47	56	51	47	46	46	46	46	46	46		
	9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42	42	42	42	42	42		
	10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39	39	39	39	39	39		

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

	0°
0°	52775
5°	52526
10°	51669
15°	50630
20°	49261
25°	47797
30°	45861
35°	43206
40°	37857
45°	27514
50°	16537
55°	8946
60°	4506
65°	1920
70°	529
75°	339
80°	505
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 27514 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.3	6.1
10°-20°	251.0	16.9
20°-30°	363.1	24.4
30°-40°	399.0	26.8
40°-50°	273.4	18.4
50°-60°	90.6	6.1
60°-70°	16.7	1.1
70°-80°	2.4	0.2
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°	704.4	47.4
0°-40°	1103.4	74.2
0°-60°	1467.4	98.7
0°-90°	1487.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1487.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	963	
5°	954	90
15°	892	251
25°	790	363
35°	646	399
45°	355	273
55°	94	91
65°	15	17
75°	2	2
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	962.7
2.5°	961.1
5°	954.5
7.5°	943.0
10°	928.2
12.5°	911.8
15°	892.1
17.5°	869.1
20°	844.4
22.5°	818.1
25°	790.2
27.5°	759.0
30°	724.5
32.5°	688.4
35°	645.6
37.5°	594.7
40°	529.0
42.5°	446.9
45°	354.9
47.5°	267.8
50°	193.9
52.5°	136.4
55°	93.6
57.5°	62.4
60°	41.1
62.5°	24.6
65°	14.8
67.5°	6.6
70°	3.3
72.5°	3.3
75°	1.6
77.5°	1.6
80°	1.6
82.5°	1.6
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)