

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: P643582

Luminaire Tested: ML5615LSVWFL9FS1E - 691WB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643582  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-105)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 691WB - 900LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1081.0 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

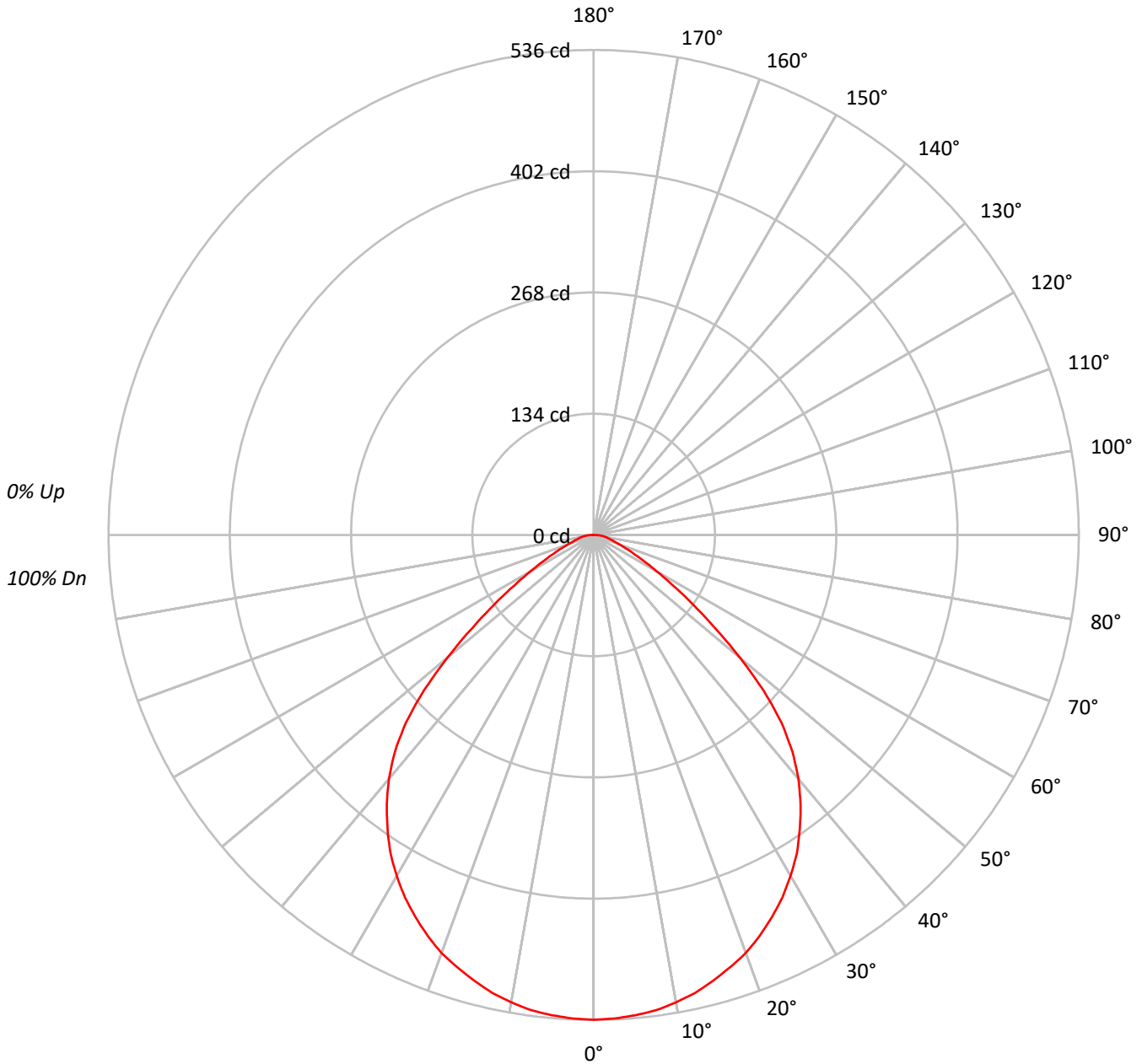
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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									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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53																			
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48																			
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

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

	0°
0°	29378
5°	29320
10°	29202
15°	28956
20°	28685
25°	28187
30°	27542
35°	26575
40°	25176
45°	22731
50°	17987
55°	12779
60°	8793
65°	6265
70°	4776
75°	4130
80°	4230
85°	4529

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22731 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.6	4.7
10°-20°	143.9	13.3
20°-30°	214.5	19.8
30°-40°	247.7	22.9
40°-50°	221.9	20.5
50°-60°	122.7	11.3
60°-70°	50.3	4.7
70°-80°	21.4	2.0
80°-90°	8.0	0.7
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°	409.1	37.8
0°-40°	656.7	60.8
0°-60°	1001.3	92.6
0°-90°	1081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1081.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	536	
5°	533	51
15°	510	144
25°	466	215
35°	397	248
45°	293	222
55°	134	123
65°	48	50
75°	20	21
85°	7	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	535.9
2.5°	534.9
5°	532.8
7.5°	529.8
10°	524.6
12.5°	518.4
15°	510.2
17.5°	501.0
20°	491.7
22.5°	479.4
25°	466.0
27.5°	451.6
30°	435.1
32.5°	417.6
35°	397.1
37.5°	375.5
40°	351.8
42.5°	325.1
45°	293.2
47.5°	254.1
50°	210.9
52.5°	168.7
55°	133.7
57.5°	103.9
60°	80.2
62.5°	62.7
65°	48.3
67.5°	38.1
70°	29.8
72.5°	23.7
75°	19.5
77.5°	16.5
80°	13.4
82.5°	11.3
85°	7.2
87.5°	4.1
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)