

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: P643511

Luminaire Tested: ML5615LSVWFL9FS1E - 594SNB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643511  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-102)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 594SNB - 1200LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

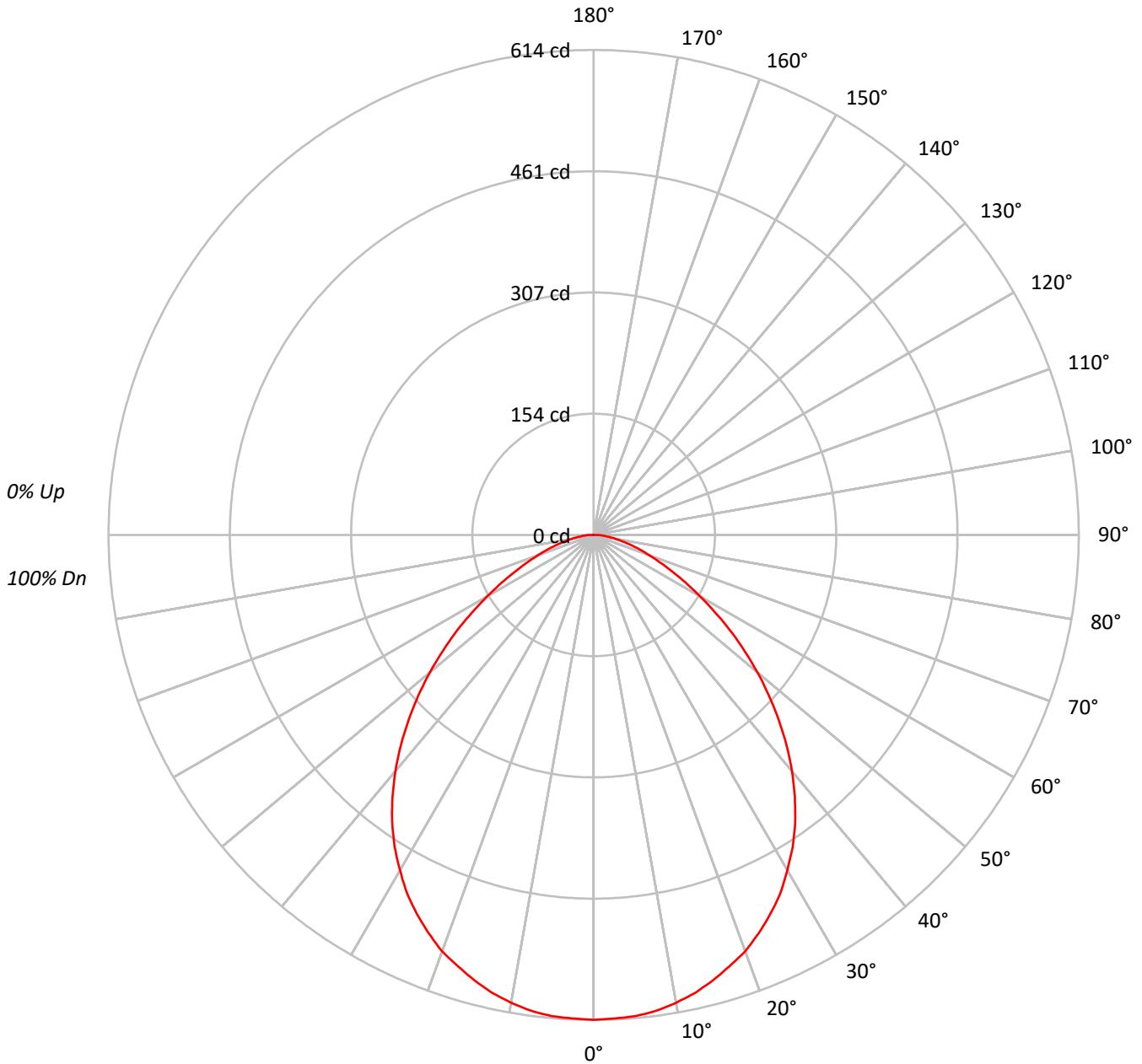
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1364.6 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.26  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 13.4  
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74	74	74	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56	56	56	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49	49	49	49
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44	44	44	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39	39	39	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32	32	32	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29	29	29	29

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

	0°
0°	48470
5°	48457
10°	48207
15°	47703
20°	47128
25°	46112
30°	44683
35°	42855
40°	40231
45°	36953
50°	33208
55°	29040
60°	24535
65°	20528
70°	17195
75°	14640
80°	12638
85°	12590

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 36953 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.0	4.3
10°-20°	164.6	12.1
20°-30°	243.5	17.8
30°-40°	277.0	20.3
40°-50°	255.0	18.7
50°-60°	188.7	13.8
60°-70°	110.5	8.1
70°-80°	51.7	3.8
80°-90°	15.5	1.1
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°	466.2	34.2
0°-40°	743.2	54.5
0°-60°	1186.9	87.0
0°-90°	1364.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1364.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	614	
5°	612	58
15°	584	165
25°	529	244
35°	445	277
45°	331	255
55°	211	189
65°	110	110
75°	48	52
85°	14	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	614.0
2.5°	612.8
5°	611.5
7.5°	607.7
10°	601.4
12.5°	593.8
15°	583.7
17.5°	572.4
20°	561.0
22.5°	545.8
25°	529.4
27.5°	511.7
30°	490.2
32.5°	468.7
35°	444.7
37.5°	418.2
40°	390.4
42.5°	361.4
45°	331.0
47.5°	300.7
50°	270.4
52.5°	240.1
55°	211.0
57.5°	181.9
60°	155.4
62.5°	131.4
65°	109.9
67.5°	91.0
70°	74.5
72.5°	60.6
75°	48.0
77.5°	36.6
80°	27.8
82.5°	20.2
85°	13.9
87.5°	8.8
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)