

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: P641009

Luminaire Tested: ML5612LSNFL2597FS1E - 594SNB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641009  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 594SNB - 1200LM - 4000K  
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

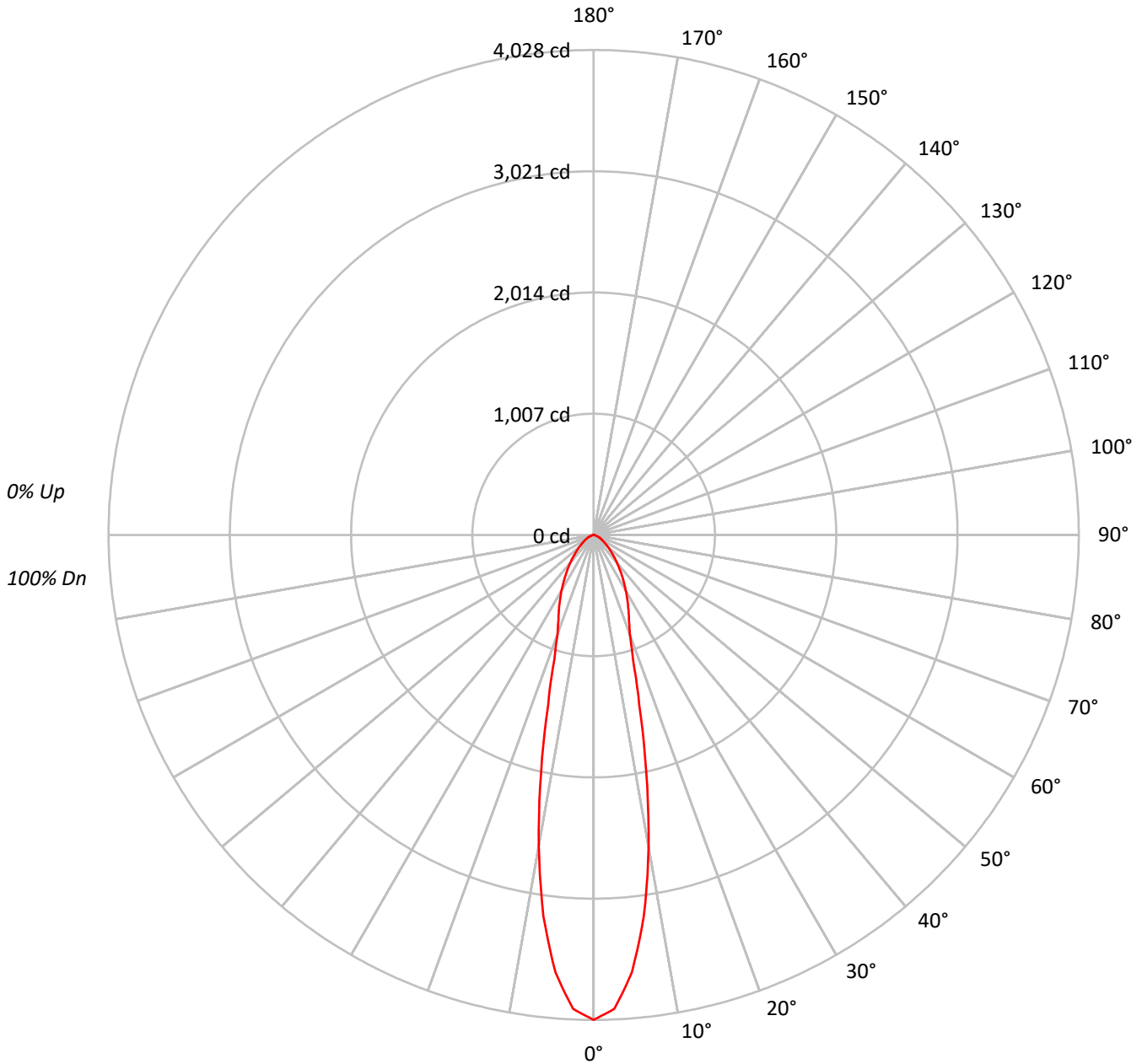
Lumens per Lamp: N/A  
Luminaire Lumens: 1641.1 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
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				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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73	73	73	73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68	68	68	68
6	86	77	71	67	85	76	71	66	75	70	66	74	69	66	72	68	65	64	64	64	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60	60	60	60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57	57	57	57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54	54	54	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	55	52	51	51	51	51

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

	0°
0°	318006
5°	289005
10°	210625
15°	119393
20°	73414
25°	59377
30°	48585
35°	39068
40°	30946
45°	24304
50°	18999
55°	14878
60°	11857
65°	9526
70°	6924
75°	3660
80°	2046
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24304 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.3	19.2
10°-20°	421.1	25.7
20°-30°	314.4	19.2
30°-40°	254.3	15.5
40°-50°	169.8	10.3
50°-60°	98.5	6.0
60°-70°	51.5	3.1
70°-80°	14.8	0.9
80°-90°	1.4	0.1
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°	1050.7	64.0
0°-40°	1305.0	79.5
0°-60°	1573.4	95.9
0°-90°	1641.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1641.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4028	
5°	3647	315
15°	1461	421
25°	682	314
35°	405	254
45°	218	170
55°	108	99
65°	51	51
75°	12	15
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4028.4
2.5°	3939.9
5°	3647.1
7.5°	3193.6
10°	2627.6
12.5°	2013.5
15°	1460.9
17.5°	1082.6
20°	873.9
22.5°	765.7
25°	681.7
27.5°	605.1
30°	533.0
32.5°	465.5
35°	405.4
37.5°	349.8
40°	300.3
42.5°	256.8
45°	217.7
47.5°	183.2
50°	154.7
52.5°	129.1
55°	108.1
57.5°	90.1
60°	75.1
62.5°	63.1
65°	51.0
67.5°	42.0
70°	30.0
72.5°	19.5
75°	12.0
77.5°	7.5
80°	4.5
82.5°	3.0
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)