

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: P885641

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL-340LM-4000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885641
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-119)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL-340LM-4000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

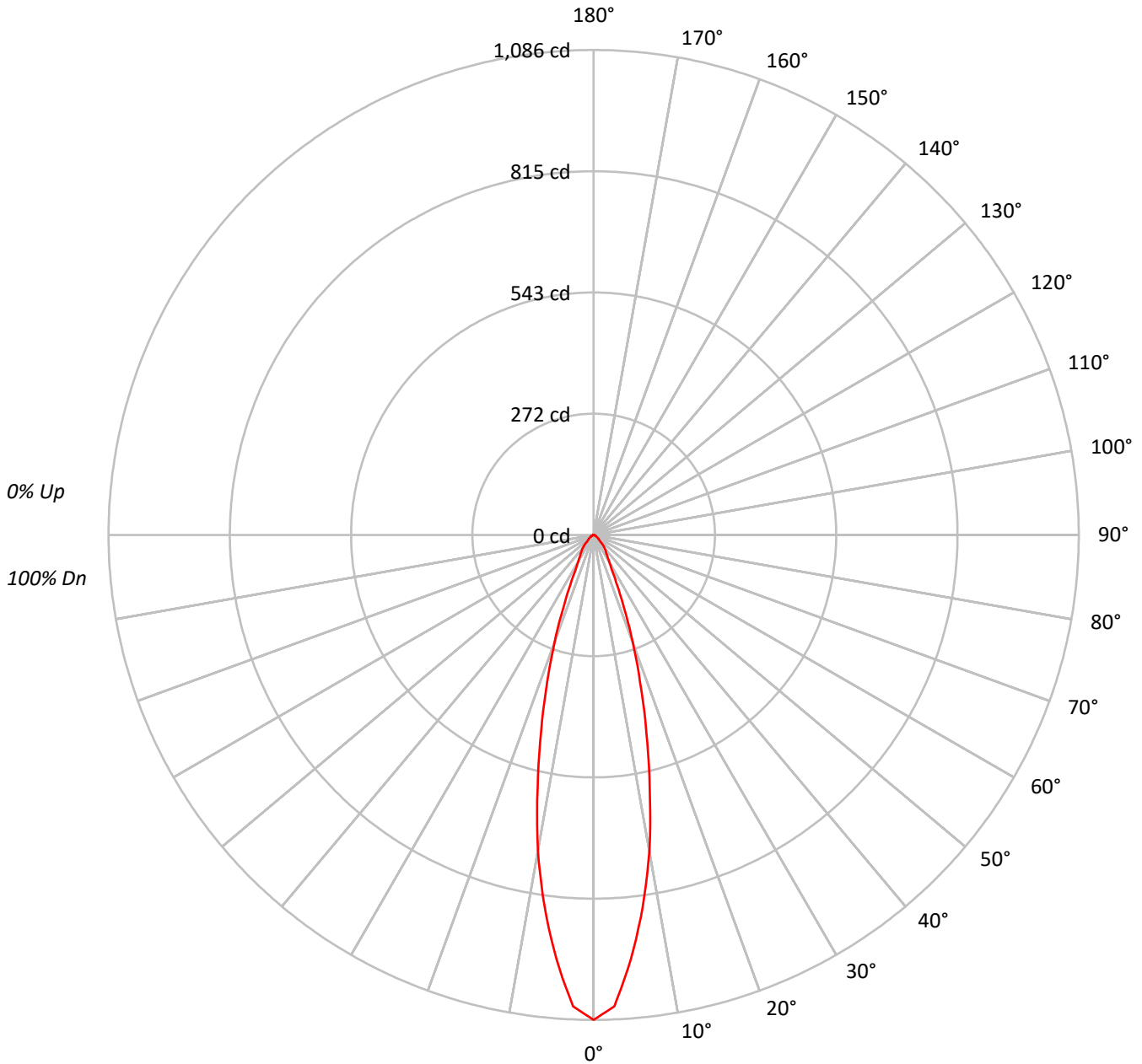
Lumens per Lamp: N/A
Luminaire Lumens: 336.1 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.47
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 6.1
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	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	112	109	107	105	105	104	102	102	100	99	98	97	96	95			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89			
3	104	99	94	91	103	97	93	90	95	91	89	92	90	87	90	88	86	84			
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	87	84	82	80			
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76			
6	92	85	79	76	91	84	79	76	82	78	75	81	77	75	80	77	74	73			
7	89	81	76	72	88	80	75	72	79	75	72	78	74	71	77	73	71	70			
8	86	78	72	69	85	77	72	69	76	72	69	75	71	68	74	71	68	67			
9	83	75	69	66	82	74	69	66	73	69	66	72	68	66	72	68	65	64			
10	80	72	67	64	79	71	67	63	71	66	63	70	66	63	69	66	63	62			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2143464
5°	1890941
10°	1439865
15°	927799
20°	535341
25°	268493
30°	158380
35°	119258
40°	95065
45°	61681
50°	45133
55°	36128
60°	29208
65°	19613
70°	12118
75°	8388
80°	12502
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 61681 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.7	24.9
10°-20°	125.5	37.3
20°-30°	61.5	18.3
30°-40°	31.6	9.4
40°-50°	18.2	5.4
50°-60°	9.5	2.8
60°-70°	4.3	1.3
70°-80°	1.6	0.5
80°-90°	0.1	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°	270.7	80.6
0°-40°	302.4	90.0
0°-60°	330.1	98.2
0°-90°	336.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	336.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1086	
5°	954	84
15°	454	125
25°	123	62
35°	50	32
45°	22	18
55°	10	9
65°	4	4
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1086.1
2.5°	1056.6
5°	954.5
7.5°	840.7
10°	718.5
12.5°	579.4
15°	454.1
17.5°	345.5
20°	254.9
22.5°	179.1
25°	123.3
27.5°	88.5
30°	69.5
32.5°	57.9
35°	49.5
37.5°	43.2
40°	36.9
42.5°	30.6
45°	22.1
47.5°	16.9
50°	14.7
52.5°	12.6
55°	10.5
57.5°	8.4
60°	7.4
62.5°	5.3
65°	4.2
67.5°	3.2
70°	2.1
72.5°	2.1
75°	1.1
77.5°	1.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
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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