

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: P885639

Luminaire Tested: ML104LSFL95FS1E-TIR1D25NFL-TL1RDSL-340LM-3000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885639
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-3000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

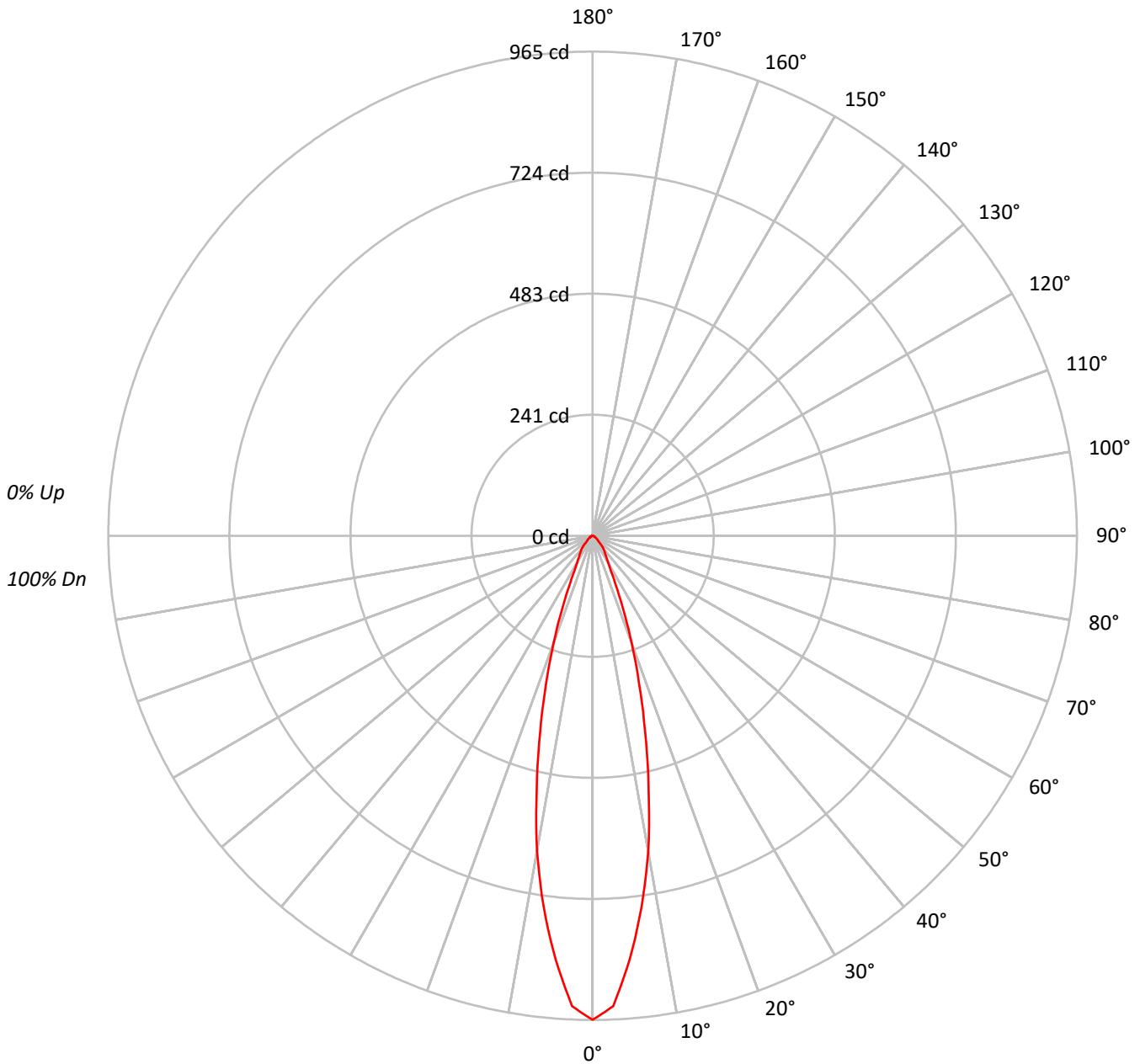
Lumens per Lamp: N/A
Luminaire Lumens: 298.4 lumens
Efficiency: N/A
Efficacy: 48.9 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.47
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

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									
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	114	112	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	74	71	70																			
8	86	78	72	69	85	77	72	69	76	72	69	75	71	68	74	71	68	67																			
9	83	75	70	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°	1903678
5°	1679164
10°	1278744
15°	823802
20°	475485
25°	238443
30°	140605
35°	106007
40°	84244
45°	54704
50°	40221
55°	32343
60°	25656
65°	17278
70°	10963
75°	6863
80°	10229
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 54704 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	24.9
10°-20°	111.5	37.4
20°-30°	54.6	18.3
30°-40°	28.1	9.4
40°-50°	16.2	5.4
50°-60°	8.4	2.8
60°-70°	3.8	1.3
70°-80°	1.3	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°	240.4	80.6
0°-40°	268.5	90.0
0°-60°	293.1	98.2
0°-90°	298.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	298.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	965	
5°	848	74
15°	403	111
25°	110	55
35°	44	28
45°	20	16
55°	9	8
65°	4	4
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	964.6
2.5°	938.4
5°	847.6
7.5°	746.6
10°	638.1
12.5°	514.6
15°	403.2
17.5°	306.9
20°	226.4
22.5°	159.0
25°	109.5
27.5°	78.6
30°	61.7
32.5°	51.5
35°	44.0
37.5°	38.4
40°	32.7
42.5°	27.1
45°	19.6
47.5°	15.0
50°	13.1
52.5°	11.2
55°	9.4
57.5°	7.5
60°	6.5
62.5°	4.7
65°	3.7
67.5°	2.8
70°	1.9
72.5°	1.9
75°	0.9
77.5°	0.9
80°	0.9
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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(END OF REPORT)