

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: P885689

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1RDMW-340LM-3000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-124)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1RDMW-340LM-3000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT
Ballast/Driver: -

Summary

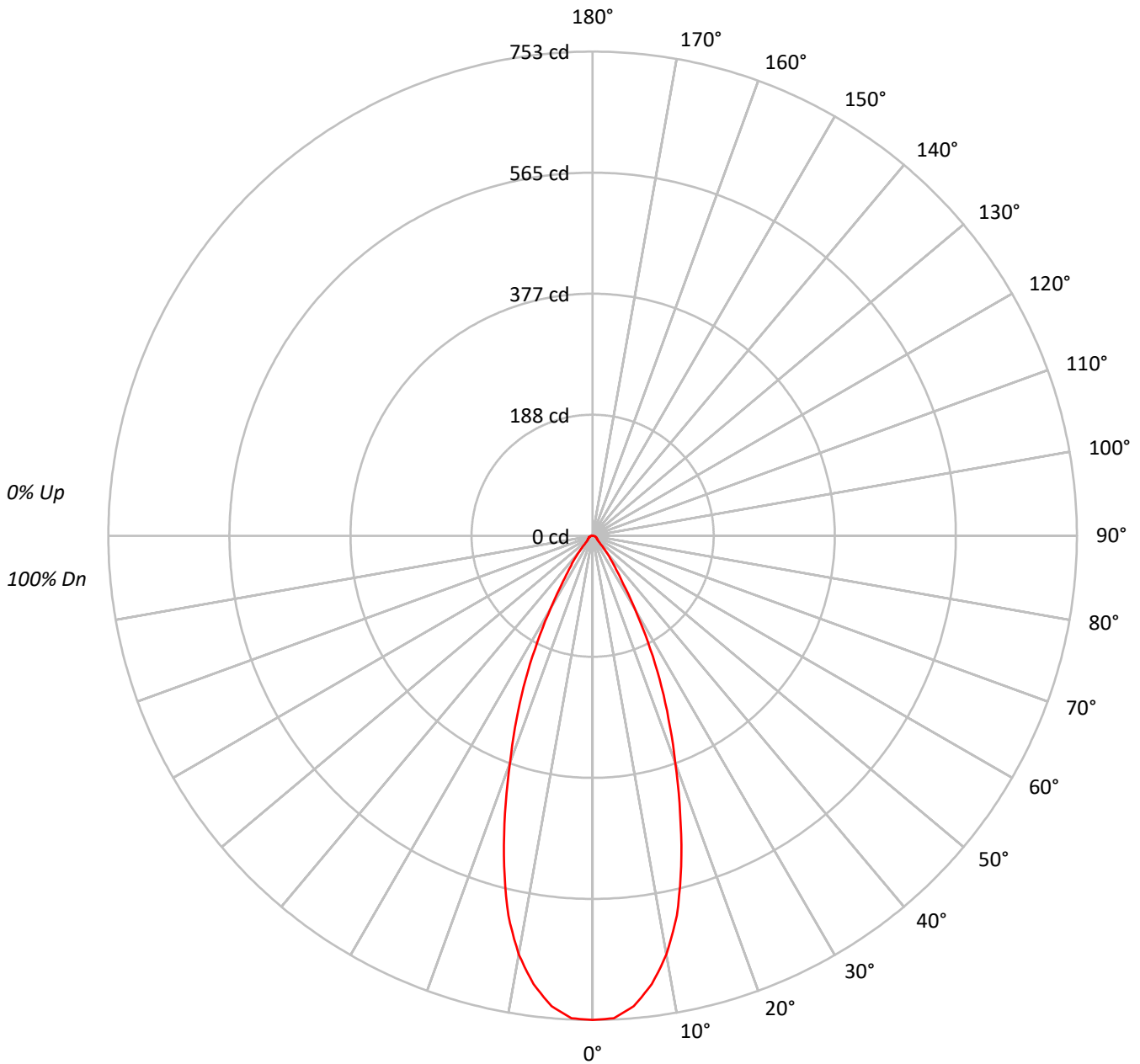
Lumens per Lamp: N/A
Luminaire Lumens: 400.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.65
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

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	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													
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94						94													
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88						88													
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83						83													
4	99	92	87	83	97	91	86	82	88	84	81	87	83	80	85	82	79	78						78													
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	74						74													
6	90	82	77	73	89	82	76	73	80	75	72	79	75	72	77	74	71	70						70													
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66						66													
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63						63													
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60						60													
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58						58													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1486077
5°	1454707
10°	1325237
15°	1087370
20°	787785
25°	535680
30°	296250
35°	153228
40°	86820
45°	39074
50°	31624
55°	28902
60°	29603
65°	30354
70°	27120
75°	28213
80°	31822
85°	20379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 40720 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	16.9
10°-20°	145.2	36.3
20°-30°	111.5	27.9
30°-40°	43.0	10.8
40°-50°	13.2	3.3
50°-60°	7.6	1.9
60°-70°	6.1	1.5
70°-80°	4.2	1.0
80°-90°	1.4	0.3
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°	324.4	81.1
0°-40°	367.4	91.9
0°-60°	388.3	97.1
0°-90°	400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	400.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	753	
5°	734	68
15°	532	145
25°	246	112
35°	64	43
45°	14	13
55°	8	8
65°	6	6
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	753.0
2.5°	751.1
5°	734.3
7.5°	703.4
10°	661.3
12.5°	605.2
15°	532.2
17.5°	452.7
20°	375.1
22.5°	308.7
25°	246.0
27.5°	185.2
30°	130.0
32.5°	88.9
35°	63.6
37.5°	46.8
40°	33.7
42.5°	22.4
45°	14.0
47.5°	11.2
50°	10.3
52.5°	9.4
55°	8.4
57.5°	7.5
60°	7.5
62.5°	6.5
65°	6.5
67.5°	5.6
70°	4.7
72.5°	4.7
75°	3.7
77.5°	3.7
80°	2.8
82.5°	1.9
85°	0.9
87.5°	0.9
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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