

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: P885681

Luminaire Tested: ML104LSFL95FS1E-TIR1D40FL-TL1RDMB-340LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-126)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL95FS1E-TIR1D40FL-TL1RDMB-340LM-4000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

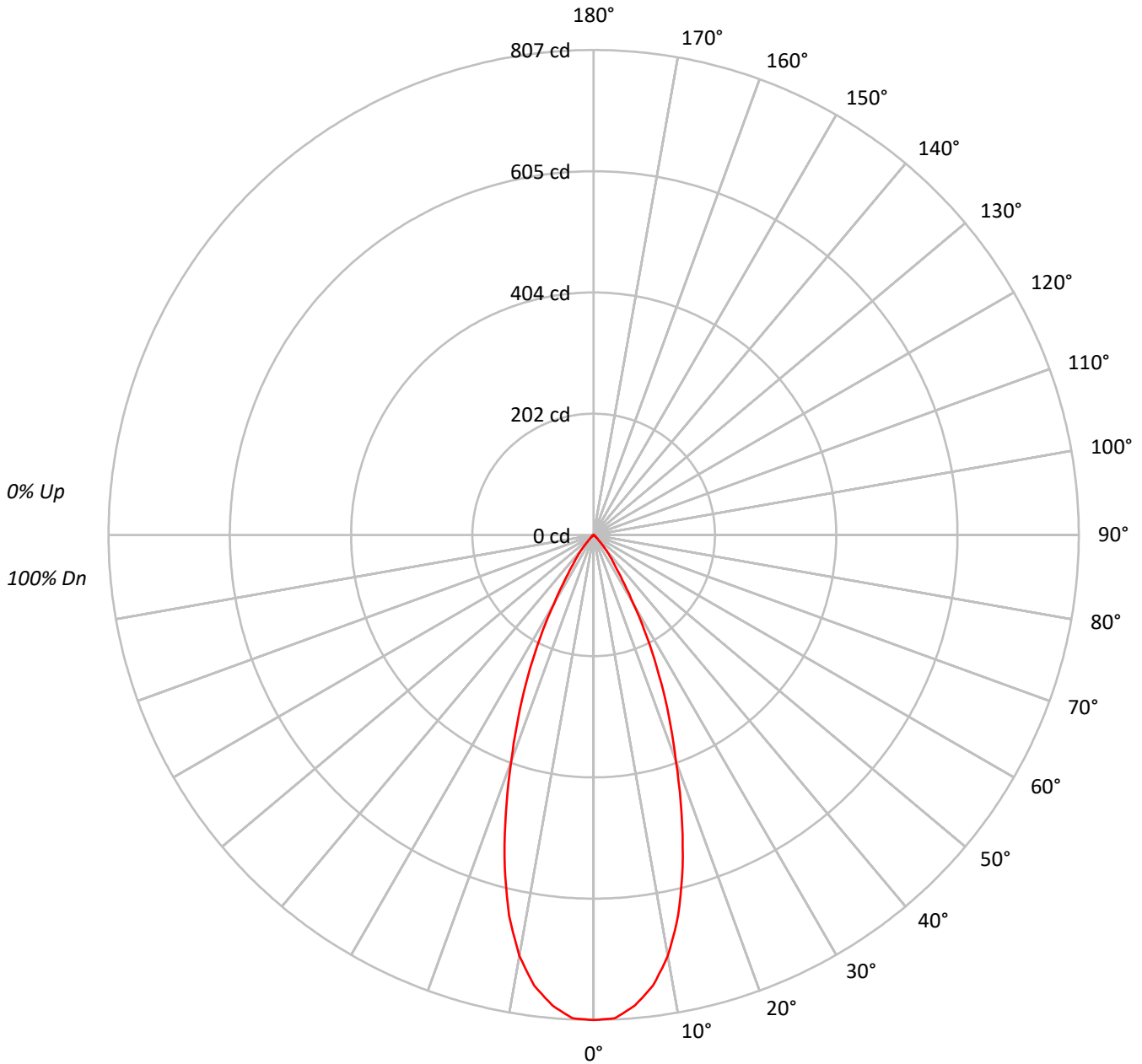
Lumens per Lamp: N/A
Luminaire Lumens: 396.3 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 0.65 / 0.65 / 0.65
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

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					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	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	100	100		
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95	95	95		
	2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	90	90	90		
	3	105	100	95	92	103	98	94	91	96	93	90	93	91	88	91	89	87	86	86	86	86	86	86		
	4	101	94	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	81	81	81	81	81	81		
	5	97	90	85	81	95	89	84	81	87	83	80	86	82	79	84	81	79	77	77	77	77	77	77		
	6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	77	75	74	74	74	74	74	74		
	7	89	81	76	73	88	81	76	73	80	75	72	79	75	72	77	74	72	70	70	70	70	70	70		
	8	86	78	73	69	85	77	72	69	76	72	69	75	71	69	74	71	68	67	67	67	67	67	67		
	9	83	74	69	66	82	74	69	66	73	69	66	72	68	66	72	68	65	64	64	64	64	64	64		
	10	80	71	66	63	79	71	66	63	70	66	63	70	66	63	69	65	63	61	61	61	61	61	61		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1593043
5°	1557327
10°	1425436
15°	1169097
20°	840920
25°	559851
30°	300125
35°	144796
40°	73424
45°	20653
50°	9825
55°	3785
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20653 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	18.3
10°-20°	155.8	39.3
20°-30°	116.9	29.5
30°-40°	41.5	10.5
40°-50°	8.3	2.1
50°-60°	1.0	0.3
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	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°	345.4	87.2
0°-40°	386.9	97.6
0°-60°	396.3	100.0
0°-90°	396.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	396.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	807	
5°	786	73
15°	572	156
25°	257	117
35°	60	41
45°	7	8
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	807.2
2.5°	805.1
5°	786.1
7.5°	756.6
10°	711.3
12.5°	649.1
15°	572.2
17.5°	485.8
20°	400.4
22.5°	326.7
25°	257.1
27.5°	191.8
30°	131.7
32.5°	88.5
35°	60.1
37.5°	43.2
40°	28.5
42.5°	15.8
45°	7.4
47.5°	5.3
50°	3.2
52.5°	2.1
55°	1.1
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
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)