

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: P885945

Luminaire Tested: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMWB-400LM-3500K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-133)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMWB-400LM-3500K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

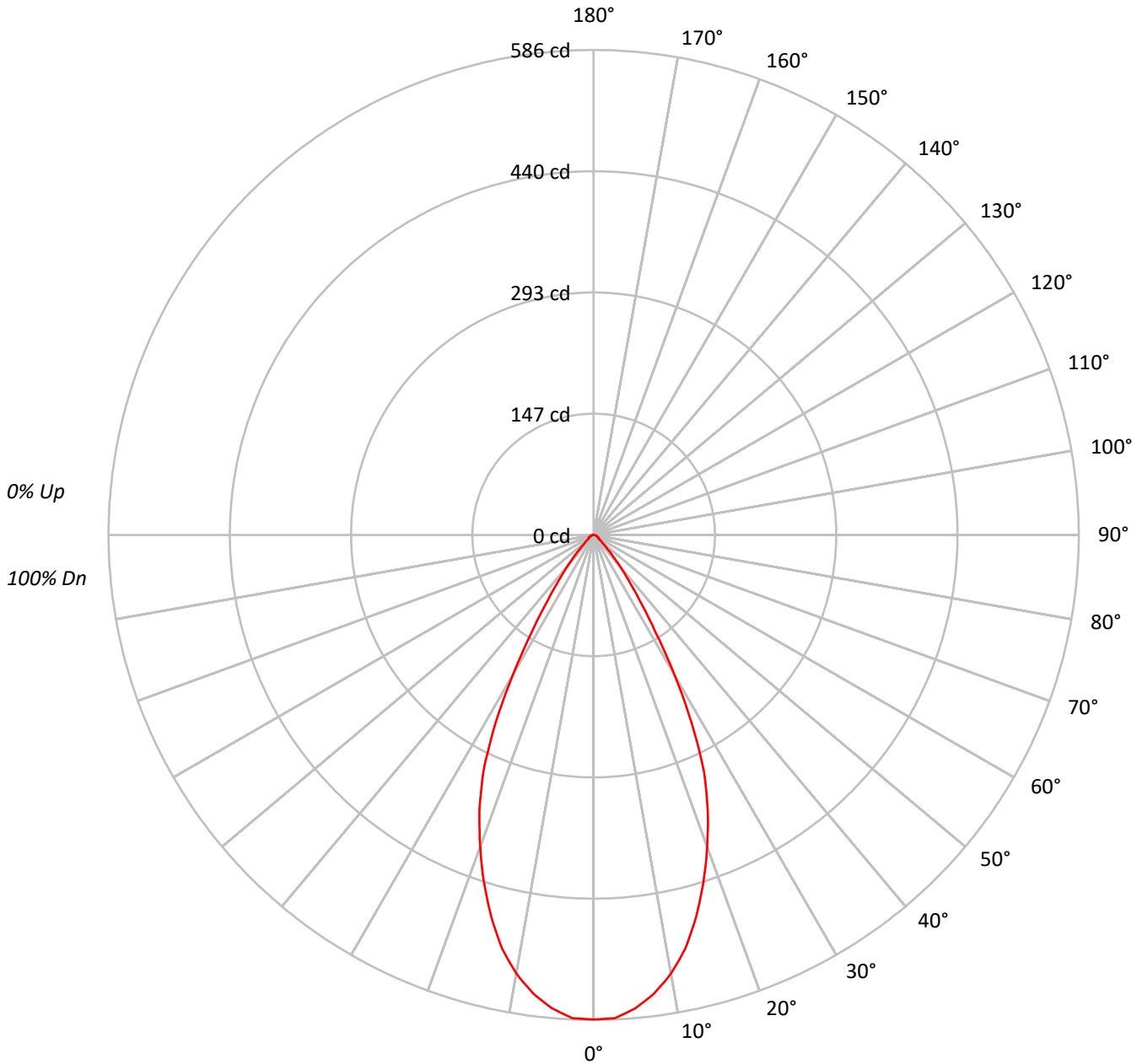
Lumens per Lamp: N/A
Luminaire Lumens: 426.6 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.78
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 6
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



TEST NUMBER: P885945
CATALOG NUMBER: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMWB-400LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P885945
 CATALOG NUMBER: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMWB-400LM-3500K

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76			
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67			
7	85	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63			
8	81	71	66	62	79	71	65	62	70	65	61	69	64	61	68	64	61	59			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	58	56			
10	74	64	59	55	73	64	59	55	63	58	55	62	58	55	62	58	55	53			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1155509
5°	1138131
10°	1078546
15°	976222
20°	841970
25°	686585
30°	443008
35°	232974
40°	124434
45°	61402
50°	37150
55°	26494
60°	26051
65°	25684
70°	25389
75°	25163
80°	25003
85°	24908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 61402 cd/sqm



TEST NUMBER: P885945

CATALOG NUMBER: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMWB-400LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	12.6
10°-20°	132.6	31.1
20°-30°	139.6	32.7
30°-40°	65.1	15.3
40°-50°	19.1	4.5
50°-60°	7.2	1.7
60°-70°	5.2	1.2
70°-80°	3.2	0.7
80°-90°	0.9	0.2
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°	325.9	76.4
0°-40°	391.0	91.7
0°-60°	417.3	97.8
0°-90°	426.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	426.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	586	
5°	574	54
15°	478	133
25°	315	140
35°	97	65
45°	22	19
55°	8	7
65°	6	5
75°	3	3
85°	1	1
90°	0	



TEST NUMBER: P885945
CATALOG NUMBER: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMWB-400LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	585.5
2.5°	584.4
5°	574.5
7.5°	559.1
10°	538.2
12.5°	511.9
15°	477.8
17.5°	440.5
20°	400.9
22.5°	360.3
25°	315.3
27.5°	257.0
30°	194.4
32.5°	138.4
35°	96.7
37.5°	69.2
40°	48.3
42.5°	33.0
45°	22.0
47.5°	15.4
50°	12.1
52.5°	8.8
55°	7.7
57.5°	6.6
60°	6.6
62.5°	5.5
65°	5.5
67.5°	4.4
70°	4.4
72.5°	3.3
75°	3.3
77.5°	2.2
80°	2.2
82.5°	1.1
85°	1.1
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)