

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: P885928

Luminaire Tested: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMB-400LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P885928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-132)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFL9FS1E-TIR1D55WFL-TL1RDMB-400LM-2700K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 361.8 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 0.79 / 0.79 / 0.76
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

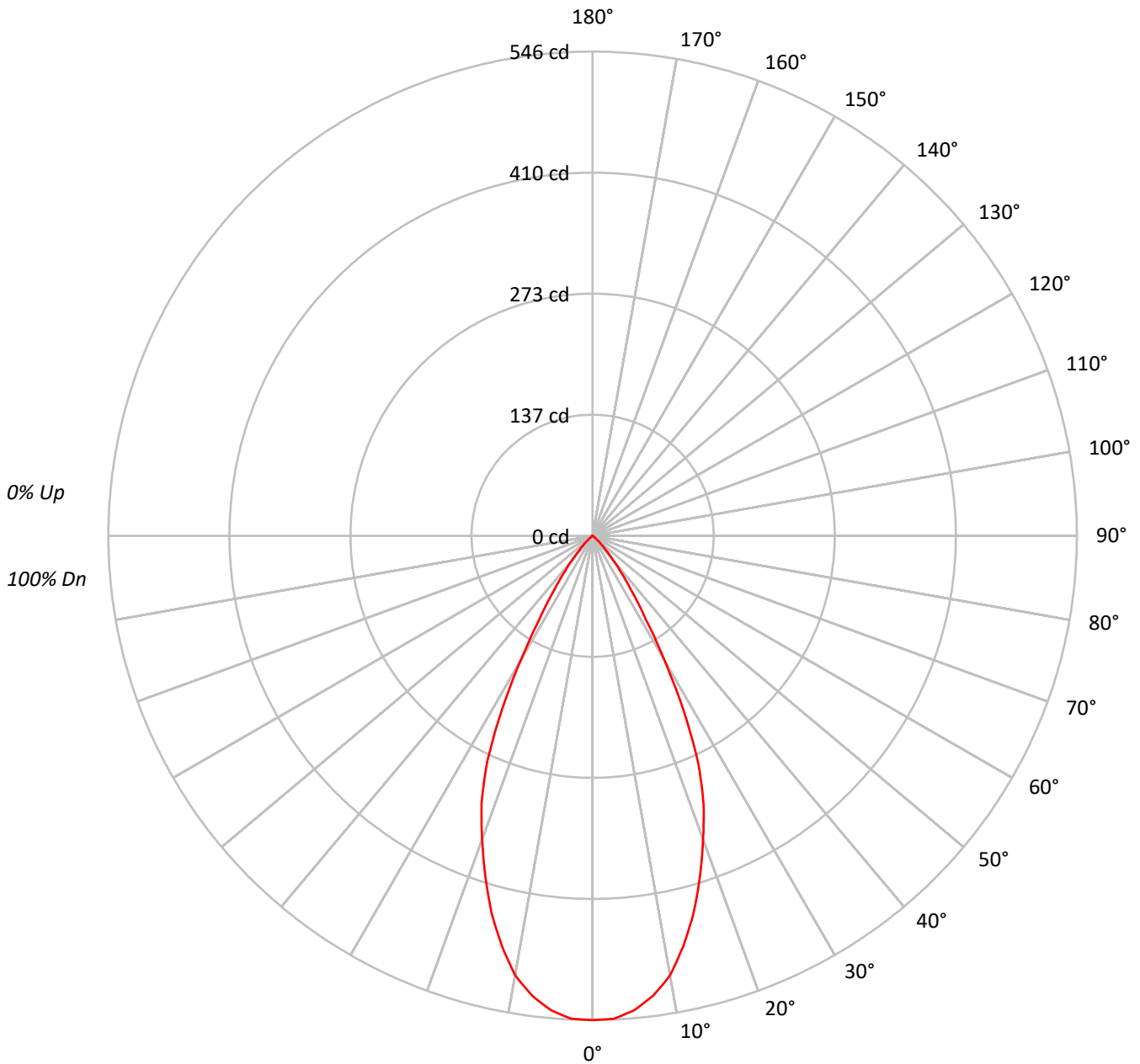
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: ML104LSFL9FS1E-TIR1D55WFL-TL1RD55WFL-TL1RD55WFL-400LM-2700K

Luminous Intensity Polar Plot





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CATALOG NUMBER: ML104LSFL9FS1E-TIR1D55WFL-TL1RDDB-400LM-2700K

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	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94						94													
2	109	104	101	98	107	103	99	97	100	97	94	97	94	92	94	92	91	89						89													
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84						84													
4	99	92	87	84	98	91	87	83	89	85	82	87	84	81	85	83	80	79						79													
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	82	78	76	74						74													
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	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	74	69	65	82	74	68	65	73	68	65	72	67	64	71	67	64	63						63													
9	79	71	65	62	78	70	65	61	69	65	61	68	64	61	68	64	61	60						60													
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57						57													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1077949
5°	1064236
10°	1008406
15°	899399
20°	764683
25°	612113
30°	367123
35°	190331
40°	92746
45°	39074
50°	12281
55°	3441
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 39074 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	13.9
10°-20°	121.9	33.7
20°-30°	123.7	34.2
30°-40°	52.6	14.5
40°-50°	12.3	3.4
50°-60°	1.1	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°	295.8	81.8
0°-40°	348.4	96.3
0°-60°	361.8	100.0
0°-90°	361.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	361.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	546	
5°	537	50
15°	440	122
25°	281	124
35°	79	53
45°	14	12
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	546.2
2.5°	545.2
5°	537.2
7.5°	523.2
10°	503.2
12.5°	473.2
15°	440.2
17.5°	402.2
20°	364.1
22.5°	327.1
25°	281.1
27.5°	222.1
30°	161.1
32.5°	112.0
35°	79.0
37.5°	55.0
40°	36.0
42.5°	23.0
45°	14.0
47.5°	8.0
50°	4.0
52.5°	2.0
55°	1.0
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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