

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: P885994

Luminaire Tested: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMWB-200LM-2700K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P885994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-121)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D25NFL-TL1RDMWB-200LM-2700K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

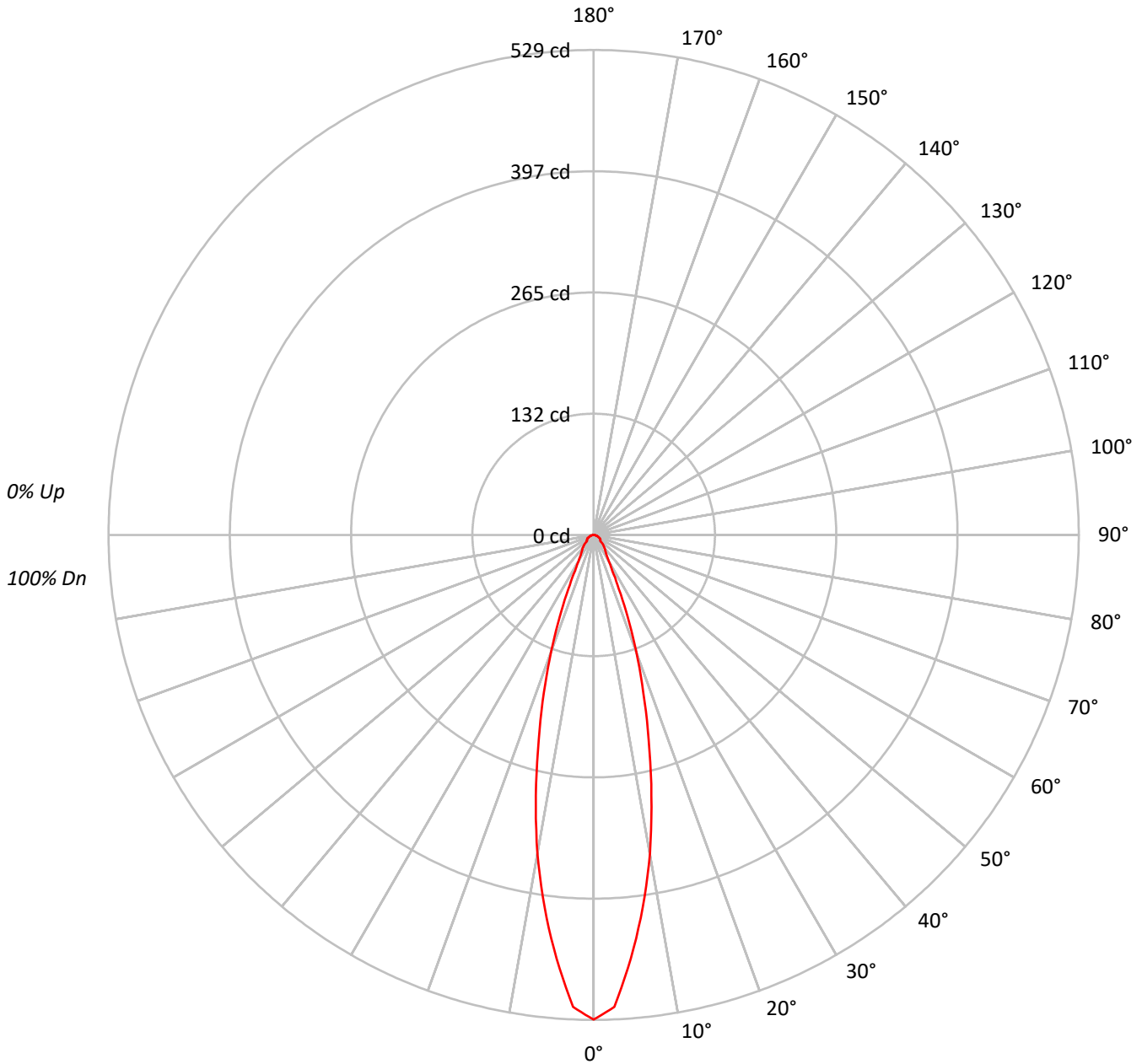
Lumens per Lamp: N/A
Luminaire Lumens: 180.1 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.48
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 3.2
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					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	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93				
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86				
3	103	96	91	87	101	95	90	87	92	88	85	90	86	84	87	85	83	81				
4	98	91	85	81	96	89	84	81	87	83	80	85	82	79	83	80	78	76				
5	94	86	80	76	92	85	79	76	83	78	75	81	77	74	80	76	74	72				
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69				
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	73	70	67	66				
8	83	74	69	65	82	74	68	65	73	68	65	72	67	64	71	67	64	63				
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60				
10	77	68	63	60	76	68	63	60	67	63	59	66	62	59	66	62	59	58				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1043412
5°	919023
10°	707407
15°	472174
20°	283947
25°	141106
30°	74518
35°	54690
40°	47146
45°	38795
50°	28861
55°	30623
60°	30787
65°	28486
70°	25389
75°	25163
80°	19321
85°	13586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 38795 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	22.7
10°-20°	63.9	35.5
20°-30°	32.0	17.8
30°-40°	14.8	8.2
40°-50°	10.3	5.7
50°-60°	7.9	4.4
60°-70°	6.2	3.4
70°-80°	3.3	1.8
80°-90°	0.9	0.5
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°	136.8	76.0
0°-40°	151.6	84.2
0°-60°	169.8	94.3
0°-90°	180.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	180.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	529	
5°	464	41
15°	231	64
25°	65	32
35°	23	15
45°	14	10
55°	9	8
65°	6	6
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	528.7
2.5°	515.4
5°	463.9
7.5°	410.1
10°	353.0
12.5°	291.0
15°	231.1
17.5°	180.1
20°	135.2
22.5°	96.4
25°	64.8
27.5°	43.8
30°	32.7
32.5°	26.6
35°	22.7
37.5°	20.5
40°	18.3
42.5°	16.1
45°	13.9
47.5°	10.0
50°	9.4
52.5°	9.4
55°	8.9
57.5°	8.3
60°	7.8
62.5°	7.2
65°	6.1
67.5°	5.5
70°	4.4
72.5°	3.9
75°	3.3
77.5°	2.2
80°	1.7
82.5°	1.1
85°	0.6
87.5°	0.6
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)