

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: P886041

Luminaire Tested: ML104LSFLD2W1E-TIR1D55WFL-TL1RDMW-200LM-4000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886041
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-130)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D55WFL-TL1RDMW-200LM-4000K
Description: 1IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

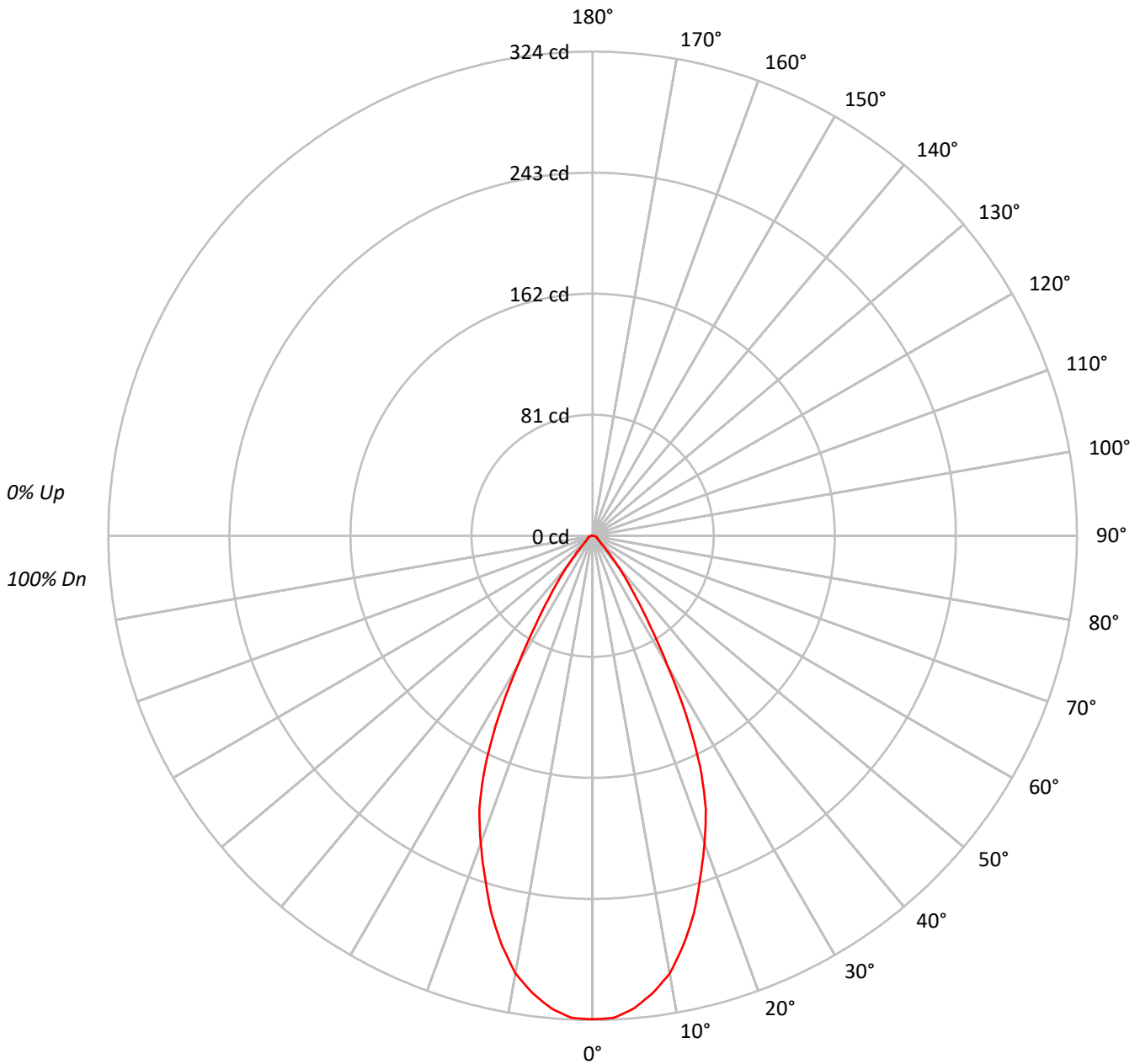
Lumens per Lamp: N/A
Luminaire Lumens: 232.2 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 0.81 / 0.81 / 0.77
Luminous Opening: Circular (Dia: 0.08' x H: 0')
CIE Type: Direct

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	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
4	98	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67			
7	84	75	70	65	83	75	69	65	73	68	65	72	68	65	71	67	64	63			
8	81	71	66	62	79	71	65	61	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	60	57	56			
10	74	64	59	55	73	64	59	55	63	58	55	62	58	55	62	57	54	53			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	638441
5°	628993
10°	595785
15°	534491
20°	459524
25°	370403
30°	227657
35°	123113
40°	65953
45°	33213
50°	19957
55°	16516
60°	14210
65°	16811
70°	17311
75°	18300
80°	13638
85°	13586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33213 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	12.8
10°-20°	72.5	31.2
20°-30°	75.2	32.4
30°-40°	34.0	14.6
40°-50°	10.3	4.4
50°-60°	4.3	1.9
60°-70°	3.3	1.4
70°-80°	2.3	1.0
80°-90°	0.7	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°	177.3	76.4
0°-40°	211.3	91.0
0°-60°	225.9	97.3
0°-90°	232.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	232.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	324	
5°	318	30
15°	262	73
25°	170	75
35°	51	34
45°	12	10
55°	5	4
65°	4	3
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	323.5
2.5°	322.9
5°	317.5
7.5°	308.6
10°	297.3
12.5°	280.6
15°	261.6
17.5°	239.6
20°	218.8
22.5°	198.0
25°	170.1
27.5°	136.2
30°	99.9
32.5°	71.3
35°	51.1
37.5°	36.9
40°	25.6
42.5°	17.8
45°	11.9
47.5°	8.3
50°	6.5
52.5°	5.4
55°	4.8
57.5°	4.2
60°	3.6
62.5°	3.6
65°	3.6
67.5°	3.0
70°	3.0
72.5°	2.4
75°	2.4
77.5°	1.8
80°	1.2
82.5°	1.2
85°	0.6
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)