

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: P886003

Luminaire Tested: ML104LSFLD2W1E-TIR1D25NFL-TL1SDMBB-200LM-3000K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886003
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-141)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D25NFL-TL1SDMBB-200LM-3000K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

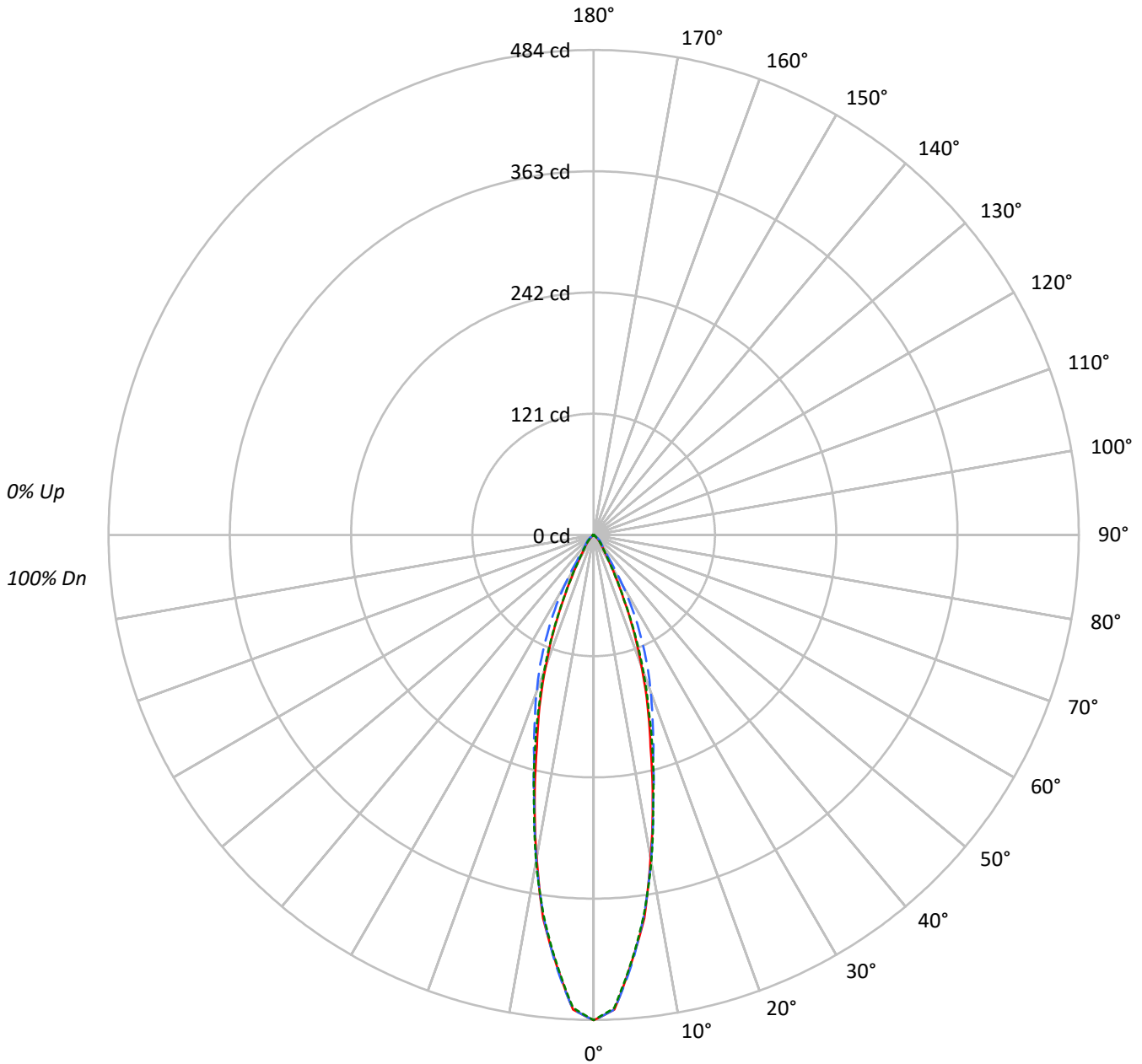
Lumens per Lamp: N/A
Luminaire Lumens: 161.8 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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									
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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	100	108	104	101	98	101	99	96	98	96	94	95	94	92	91																			
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87																			
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83																			
5	98	91	86	83	96	90	86	82	88	84	81	87	83	81	85	82	80	79																			
6	94	87	82	78	93	86	81	78	85	81	78	83	80	77	82	79	77	75																			
7	91	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	73	72																			
8	87	80	75	71	86	79	75	71	78	74	71	77	73	71	76	73	70	69																			
9	84	77	72	68	83	76	72	68	75	71	68	74	71	68	74	70	68	67																			
10	82	74	69	66	81	73	69	66	73	68	66	72	68	65	71	68	65	64																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	750673	750673	750673
5°	668275	671076	666408
10°	514989	518767	520655
15°	351268	368438	364747
20°	230599	273816	238517
25°	122112	188299	124164
30°	56379	102198	55305
35°	30465	37088	30465
40°	20436	25293	21650
45°	12933	19509	12933
50°	2894	14227	2894
55°	1621	1621	1621
60°	1860	0	1860
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 19509 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	23.5
10°-20°	63.4	39.2
20°-30°	41.0	25.3
30°-40°	13.3	8.2
40°-50°	5.2	3.2
50°-60°	0.9	0.5
60°-70°	0.1	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°	142.4	88.0
0°-40°	155.7	96.2
0°-60°	161.8	100.0
0°-90°	161.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	161.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	430	431	431	428	428	38
15°	219	225	230	228	227	61
25°	71	86	110	86	73	34
35°	16	20	20	20	16	11
45°	6	6	9	7	6	4
55°	1	1	1	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	484.3	484.3	484.3	484.3	484.3
2.5°	474.1	473.0	474.1	472.4	472.4
5°	429.5	431.3	431.3	428.3	428.3
7.5°	386.1	384.9	383.7	381.3	383.1
10°	327.2	326.0	329.6	331.4	330.8
12.5°	271.9	271.9	274.3	279.6	274.9
15°	218.9	224.9	229.6	228.4	227.3
17.5°	179.1	185.0	195.7	189.8	182.6
20°	139.8	150.5	166.0	152.9	144.6
22.5°	105.3	117.8	138.6	119.6	107.1
25°	71.4	85.7	110.1	86.3	72.6
27.5°	47.0	56.5	83.9	58.3	48.2
30°	31.5	39.3	57.1	38.7	30.9
32.5°	20.8	28.6	33.3	28.0	21.4
35°	16.1	20.2	19.6	19.6	16.1
37.5°	12.5	14.9	14.9	14.3	13.1
40°	10.1	10.7	12.5	10.7	10.7
42.5°	7.7	8.9	10.7	8.9	8.3
45°	5.9	6.5	8.9	7.1	5.9
47.5°	1.8	4.2	7.7	4.2	1.8
50°	1.2	1.2	5.9	1.2	1.2
52.5°	1.2	0.6	3.0	0.6	1.2
55°	0.6	0.6	0.6	0.6	0.6
57.5°	0.6	0.6	0.6	0.6	0.6
60°	0.6	0.0	0.0	0.6	0.6
62.5°	0.6	0.0	0.0	0.0	0.6
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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