

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: P886010

Luminaire Tested: ML104LSFLD2W1E-TIR1D25NFL-TL1SDSLB-200LM-2700K

Issue Date: 6/19/2024

Test Information

Test Method: LM-79-2019
Report Number: P886010
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-140)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/19/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML104LSFLD2W1E-TIR1D25NFL-TL1SDSLB-200LM-2700K
Description: 1IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

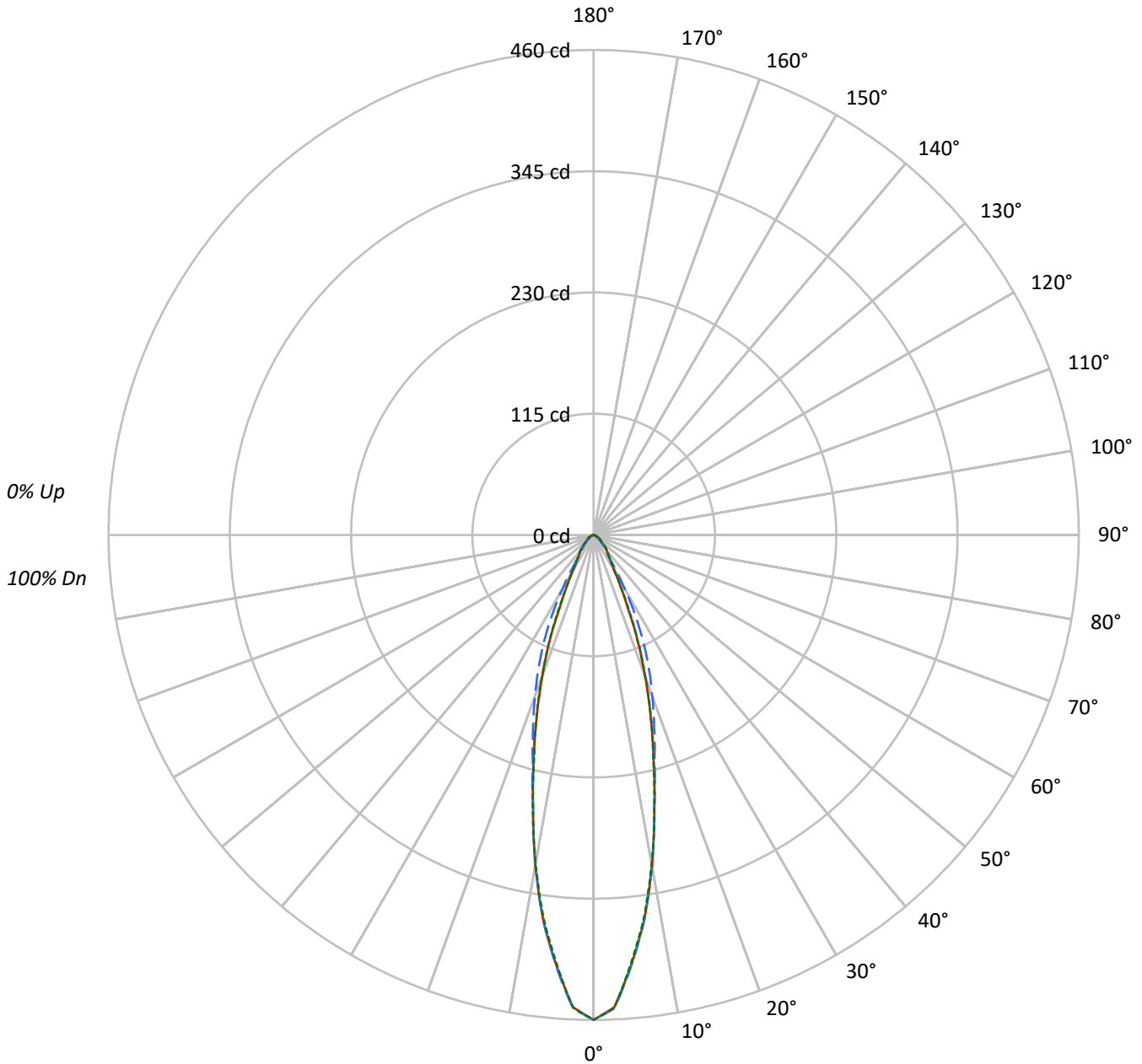
Lumens per Lamp: N/A
Luminaire Lumens: 174.6 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.56
Luminous Opening: Rectangular (W 0.08' x L: 0.08' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P886010
CATALOG NUMBER: ML104LSFLD2W1E-TIR1D25NFL-TL1SDSLB-200LM-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P886010

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D25NFL-TL1SDSLB-200LM-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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94																			
2	109	104	101	97	107	103	99	96	99	97	94	97	94	92	94	92	90	89																			
3	104	98	94	90	102	97	93	89	94	91	88	92	89	86	90	87	85	84																			
4	100	93	88	84	98	92	87	83	89	85	82	88	84	81	86	83	80	79																			
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75																			
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	72	71																			
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68																			
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65																			
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62																			
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	60	59																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	713007	713007	713007
5°	636534	638245	633889
10°	501611	499879	498935
15°	352231	357526	349503
20°	234888	267878	235877
25°	130834	189667	135623
30°	70518	106135	72487
35°	47116	46170	49387
40°	38040	32577	40468
45°	29154	25428	31566
50°	21461	18809	21461
55°	19457	5945	19457
60°	17050	5270	17050
65°	12103	4034	12103
70°	7704	2719	7704
75°	3593	3593	3593
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 31566 cd/sqm



TEST NUMBER: P886010

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D25NFL-TL1SDSLB-200LM-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.3	20.8
10°-20°	61.8	35.4
20°-30°	42.5	24.3
30°-40°	17.6	10.1
40°-50°	9.5	5.5
50°-60°	4.4	2.5
60°-70°	2.0	1.1
70°-80°	0.6	0.3
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°	140.5	80.5
0°-40°	158.2	90.6
0°-60°	172.1	98.5
0°-90°	174.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	174.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	460	460	460	460	460	
5°	409	408	410	408	407	36
15°	220	221	223	222	218	61
25°	76	89	111	90	79	37
35°	25	27	24	27	26	16
45°	13	12	12	13	14	10
55°	7	4	2	4	7	6
65°	3	2	1	2	3	3
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P886010

CATALOG NUMBER: ML104LSFLD2W1E-TIR1D25NFL-TL1SDSLB-200LM-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	460.0	460.0	460.0	460.0	460.0
2.5°	448.4	449.0	449.5	450.6	449.0
5°	409.1	407.9	410.2	408.5	407.4
7.5°	368.0	368.0	368.0	366.9	365.8
10°	318.7	318.7	317.6	318.2	317.0
12.5°	265.5	263.8	265.5	264.4	266.1
15°	219.5	220.6	222.8	221.7	217.8
17.5°	179.0	183.5	190.7	184.0	180.1
20°	142.4	150.8	162.4	150.8	143.0
22.5°	109.7	119.2	136.4	119.7	109.7
25°	76.5	88.7	110.9	89.8	79.3
27.5°	55.4	62.6	84.8	63.7	56.0
30°	39.4	45.5	59.3	46.6	40.5
32.5°	30.5	35.5	37.7	34.9	31.0
35°	24.9	27.2	24.4	27.2	26.1
37.5°	21.6	21.1	19.4	21.6	22.7
40°	18.8	17.2	16.1	17.7	20.0
42.5°	16.6	15.0	13.9	15.0	17.2
45°	13.3	12.2	11.6	12.7	14.4
47.5°	10.0	8.9	10.0	9.4	10.0
50°	8.9	6.1	7.8	6.1	8.9
52.5°	7.8	5.0	5.0	5.0	7.8
55°	7.2	4.4	2.2	4.4	7.2
57.5°	6.1	3.9	2.2	3.9	6.1
60°	5.5	3.3	1.7	3.3	5.5
62.5°	4.4	2.2	1.1	2.2	4.4
65°	3.3	1.7	1.1	1.7	3.3
67.5°	2.2	1.1	0.6	1.1	2.2
70°	1.7	1.1	0.6	1.1	1.7
72.5°	1.1	0.6	0.6	0.6	1.1
75°	0.6	0.6	0.6	0.6	0.6
77.5°	0.6	0.6	0.0	0.0	0.6
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



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





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

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)