

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: P886455

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMBB-400LM-3000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886455  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-94)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMBB-400LM-3000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) D2W LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

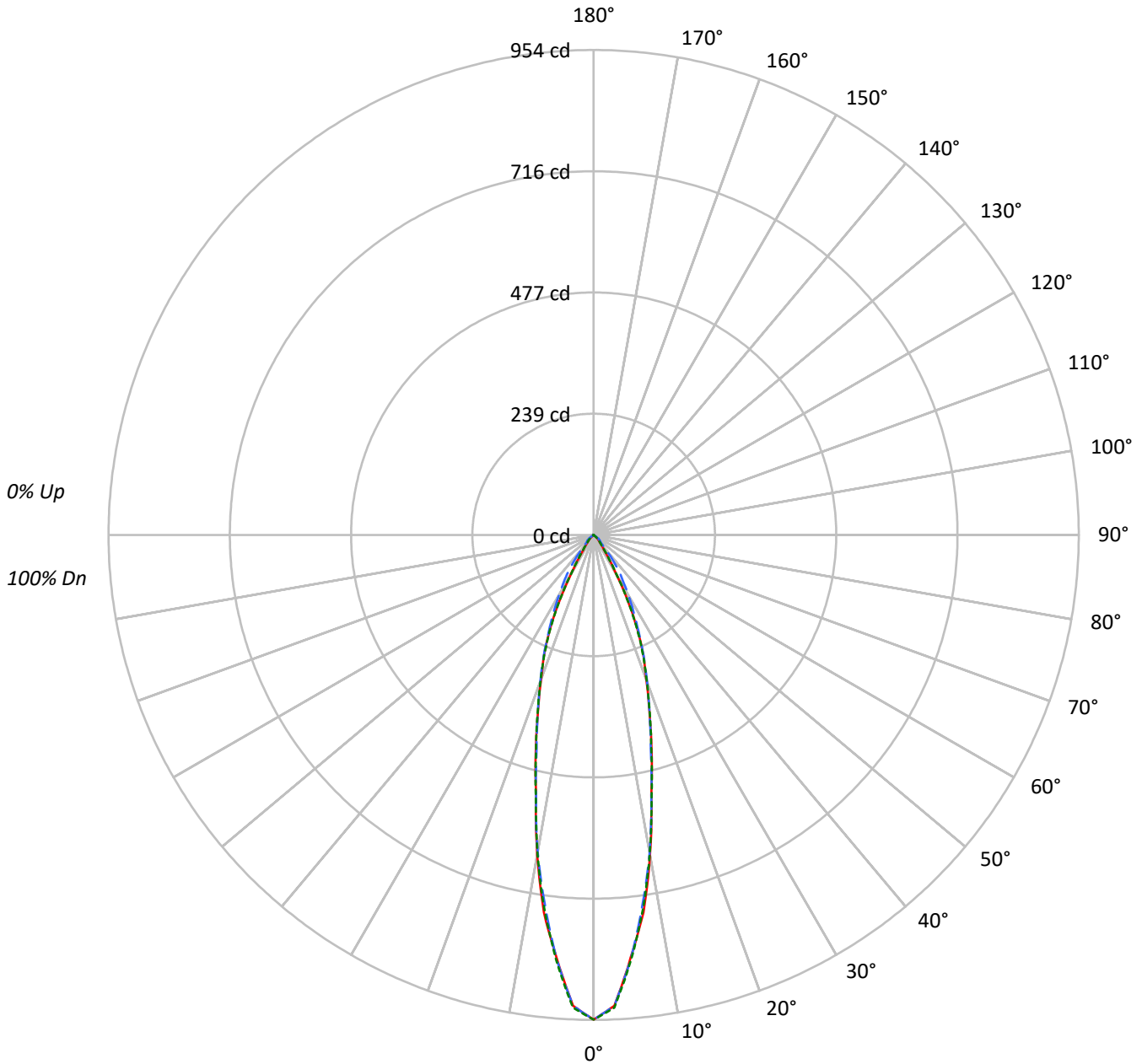
Lumens per Lamp: N/A  
Luminaire Lumens: 338.4 lumens  
Efficiency: N/A  
Efficacy: 54.6 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.54  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 6.2  
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: P886455  
CATALOG NUMBER: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMBB-400LM-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P886455  
 CATALOG NUMBER: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMBB-400LM-3000K

**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	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90																			
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86																			
4	101	95	90	86	99	93	89	86	91	88	85	90	86	84	88	85	83	82																			
5	97	90	85	81	95	89	84	81	87	83	80	86	82	80	84	81	79	78																			
6	93	86	81	77	92	85	80	77	84	79	76	82	79	76	81	78	75	74																			
7	90	82	77	73	88	81	76	73	80	76	73	79	75	72	78	74	72	71																			
8	86	78	73	70	85	78	73	70	77	72	69	76	72	69	75	71	69	68																			
9	83	75	70	67	82	75	70	67	74	69	66	73	69	66	72	69	66	65																			
10	80	72	67	64	79	72	67	64	71	67	64	70	66	63	69	66	63	62																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	369481	369481	369481
5°	324798	325693	326898
10°	251432	249307	250212
15°	176193	173706	175552
20°	124247	126143	125525
25°	86110	88761	84443
30°	39867	60316	40181
35°	16509	40304	17219
40°	9409	16440	9813
45°	5918	10193	6357
50°	482	8380	482
55°	540	2094	540
60°	0	0	0
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: 10193 cd/sqm



TEST NUMBER: P886455  
 CATALOG NUMBER: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMBB-400LM-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.7	21.8
10°-20°	122.7	36.3
20°-30°	93.3	27.6
30°-40°	36.4	10.7
40°-50°	10.8	3.2
50°-60°	1.6	0.5
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°	289.7	85.6
0°-40°	326.0	96.3
0°-60°	338.4	100.0
0°-90°	338.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	338.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	835	840	837	836	840	74
15°	439	436	433	439	438	123
25°	201	209	208	208	198	89
35°	35	46	85	48	36	26
45°	11	14	19	14	12	7
55°	1	1	3	1	1	0
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	



TEST NUMBER: P886455

CATALOG NUMBER: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMBB-400LM-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	953.5	953.5	953.5	953.5	953.5
2.5°	927.1	927.9	927.1	931.0	931.0
5°	835.0	839.6	837.3	835.7	840.4
7.5°	749.0	738.9	734.3	737.4	742.8
10°	639.0	635.9	633.6	636.7	635.9
12.5°	523.6	525.9	523.6	527.5	525.1
15°	439.2	436.1	433.0	439.2	437.6
17.5°	364.0	367.1	364.0	365.6	365.6
20°	301.3	306.7	305.9	306.7	304.4
22.5°	254.8	254.1	255.6	254.8	252.5
25°	201.4	209.1	207.6	207.6	197.5
27.5°	144.1	160.3	168.9	162.7	142.5
30°	89.1	116.2	134.8	112.3	89.8
32.5°	56.5	74.4	107.7	72.8	57.3
35°	34.9	46.5	85.2	48.0	36.4
37.5°	24.8	33.3	58.9	33.3	24.8
40°	18.6	23.2	32.5	23.2	19.4
42.5°	14.7	17.8	21.7	17.8	15.5
45°	10.8	13.9	18.6	13.9	11.6
47.5°	3.1	9.3	16.3	9.3	4.6
50°	0.8	1.5	13.9	3.1	0.8
52.5°	0.8	0.8	10.1	0.8	0.8
55°	0.8	0.8	3.1	0.8	0.8
57.5°	0.0	0.0	0.8	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
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



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)