

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: P886502

Luminaire Tested: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMBB-400LM-3500K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886502  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-106)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMBB-400LM-3500K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) D2W LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

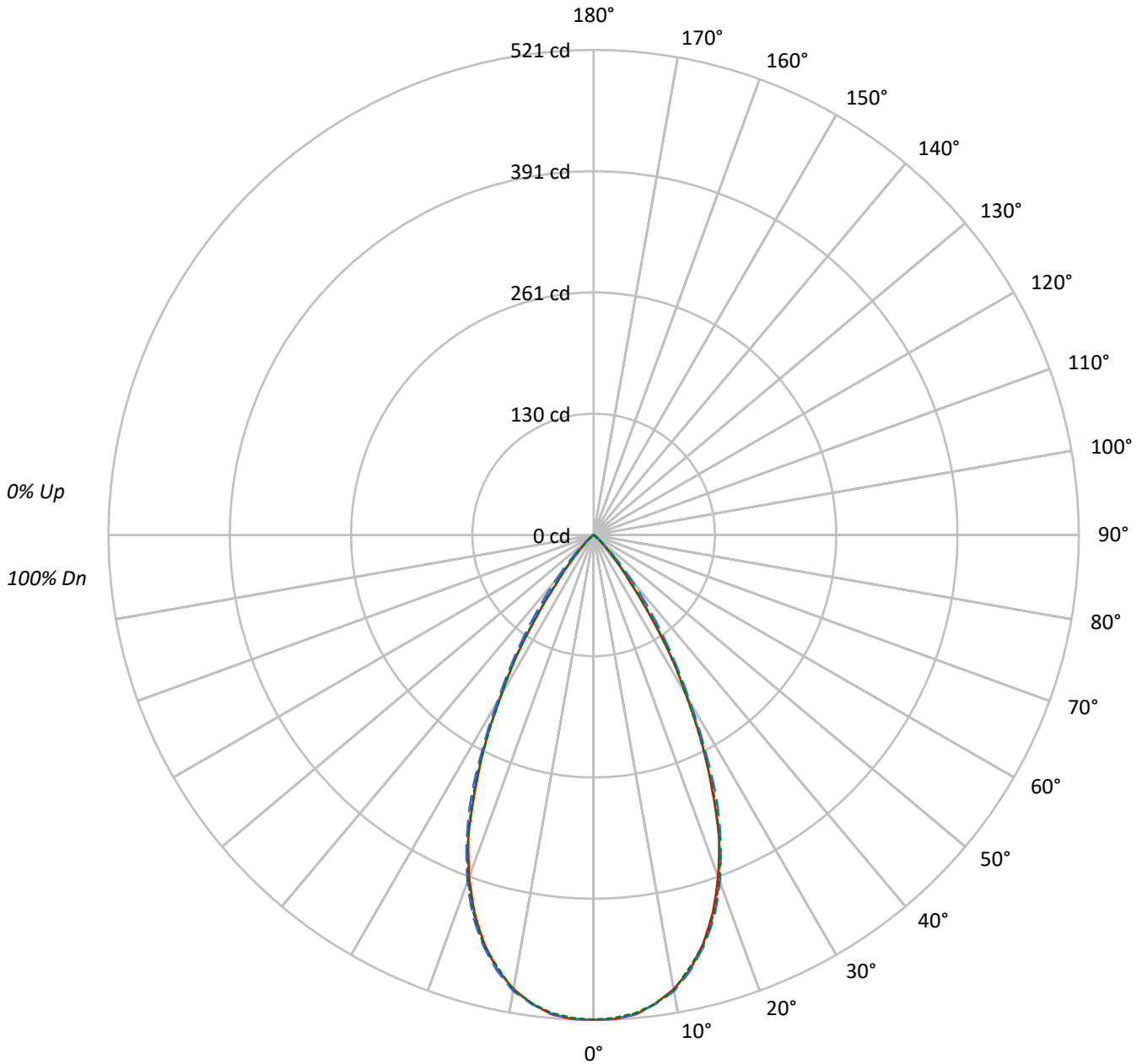
Lumens per Lamp: N/A  
Luminaire Lumens: 404.5 lumens  
Efficiency: N/A  
Efficacy: 65.2 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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: P886502  
CATALOG NUMBER: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMBB-400LM-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P886502

CATALOG NUMBER: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMBB-400LM-3500K

**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	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88																			
3	103	97	93	89	102	96	92	88	93	90	87	91	88	85	89	86	84	83																			
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77																			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73																			
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68																			
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64																			
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61																			
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	61	59	57																			
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54																			

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

	0°	45°	90°
0°	201771	201771	201771
5°	201141	200869	200597
10°	194929	195794	195243
15°	182251	183414	182813
20°	161112	163504	162597
25°	128439	133398	130020
30°	88863	92084	88550
35°	49859	58753	50900
40°	21549	31767	21549
45°	8330	12659	8330
50°	3074	4340	2592
55°	473	1486	946
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: 12659 cd/sqm



TEST NUMBER: P886502

CATALOG NUMBER: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMBB-400LM-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.6	12.0
10°-20°	126.6	31.3
20°-30°	138.0	34.1
30°-40°	73.1	18.1
40°-50°	16.5	4.1
50°-60°	1.7	0.4
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°	313.3	77.4
0°-40°	386.4	95.5
0°-60°	404.5	100.0
0°-90°	404.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	404.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	521	521	521	521	521	
5°	517	516	516	516	516	49
15°	454	454	457	455	456	126
25°	300	309	312	309	304	136
35°	105	116	124	116	108	68
45°	15	17	23	17	15	14
55°	1	1	2	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	



TEST NUMBER: P886502

CATALOG NUMBER: ML204LSFLD2W1E-TIR1D55WFL-TL2SDMBB-400LM-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	520.7	520.7	520.7	520.7	520.7
2.5°	520.7	520.0	520.7	520.0	519.3
5°	517.1	515.7	516.4	515.7	515.7
7.5°	507.7	507.7	508.4	508.4	507.7
10°	495.4	496.9	497.6	496.9	496.2
12.5°	478.1	476.7	479.6	478.1	475.9
15°	454.3	454.3	457.2	455.0	455.7
17.5°	425.4	429.0	430.4	427.6	427.6
20°	390.7	394.3	396.5	396.5	394.3
22.5°	351.7	357.5	356.8	356.8	352.4
25°	300.4	309.1	312.0	309.1	304.1
27.5°	251.3	250.6	257.8	254.2	249.9
30°	198.6	202.2	205.8	202.9	197.9
32.5°	153.8	159.6	163.2	158.2	155.3
35°	105.4	116.3	124.2	115.6	107.6
37.5°	65.0	75.1	89.6	76.6	67.2
40°	42.6	46.9	62.8	47.7	42.6
42.5°	26.7	29.6	40.4	29.6	26.7
45°	15.2	17.3	23.1	17.3	15.2
47.5°	8.7	9.4	12.3	9.4	7.9
50°	5.1	5.8	7.2	5.1	4.3
52.5°	2.2	2.9	3.6	2.9	2.2
55°	0.7	1.4	2.2	1.4	1.4
57.5°	0.0	0.7	0.7	0.7	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)