

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: P886329

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2RDMBB-550LM-5000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886329  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-82)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2RDMBB-550LM-5000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

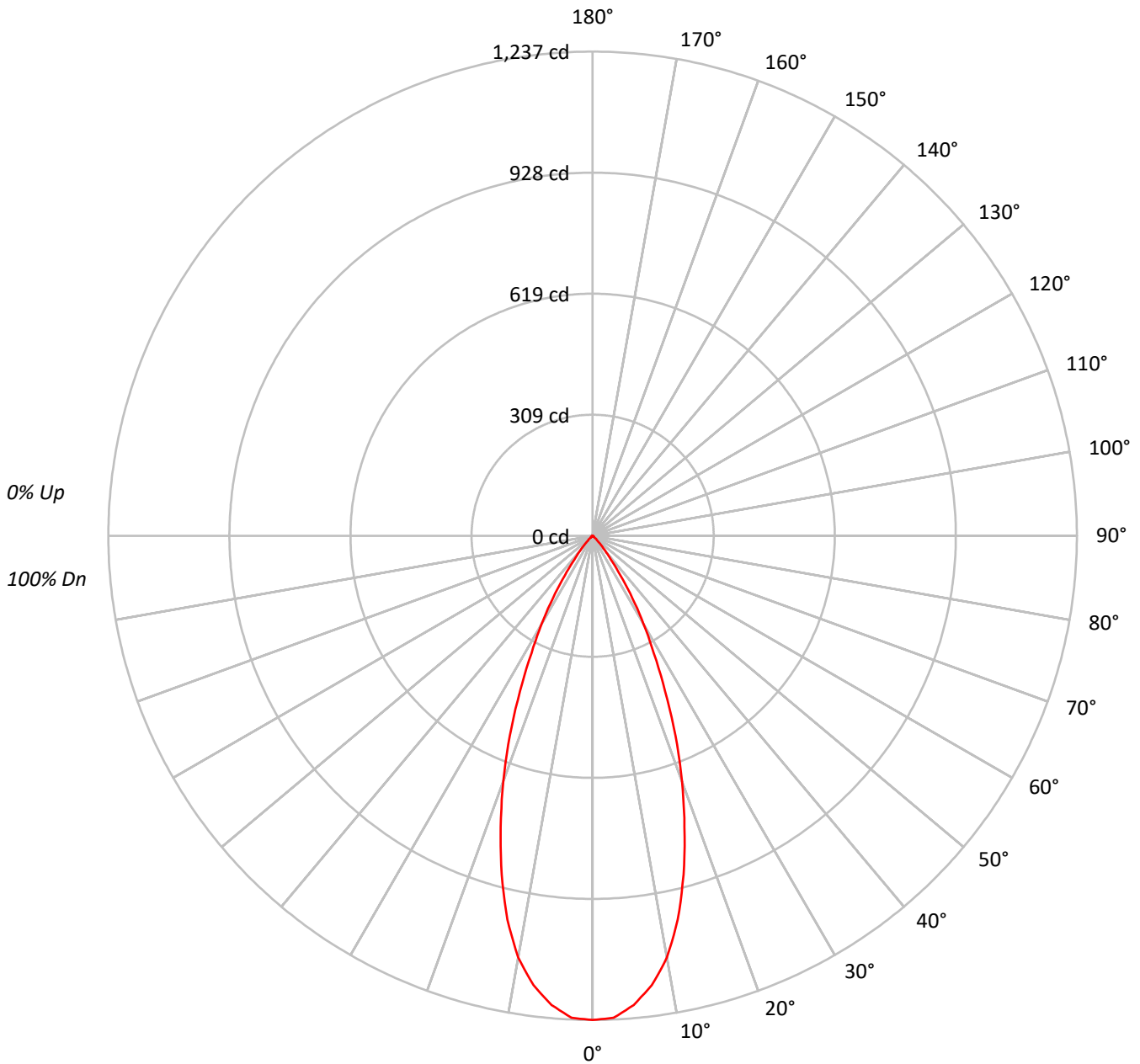
Lumens per Lamp: N/A  
Luminaire Lumens: 658.5 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.67  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.9  
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: P886329  
CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2RDMBB-550LM-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P886329

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2RDMBB-550LM-5000K

**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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	114	112	109	107	112	110	108	106	106	104	103	102	101	100	98	98	97	95	95	95
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90	90	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85	85	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	81	81	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76	76	76
6	92	84	79	76	91	84	79	75	82	78	75	81	77	74	80	76	74	73	73	73
7	88	80	75	71	87	80	75	71	79	74	71	77	73	71	76	73	70	69	69	69
8	85	77	71	68	84	76	71	68	75	71	67	74	70	67	73	70	67	66	66	66
9	82	73	68	65	81	73	68	64	72	67	64	71	67	64	70	67	64	63	63	63
10	78	70	65	62	78	70	65	61	69	64	61	68	64	61	67	64	61	60	60	60

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

	0°
0°	610311
5°	595951
10°	548134
15°	458020
20°	350047
25°	238386
30°	148237
35°	74144
40°	32139
45°	11373
50°	3531
55°	1032
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11373 cd/sqm



TEST NUMBER: P886329

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2RDMBB-550LM-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.4	16.9
10°-20°	246.2	37.4
20°-30°	201.8	30.6
30°-40°	82.8	12.6
40°-50°	15.1	2.3
50°-60°	1.3	0.2
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°	559.3	84.9
0°-40°	642.1	97.5
0°-60°	658.5	100.0
0°-90°	658.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	658.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1237	
5°	1203	111
15°	897	246
25°	438	202
35°	123	83
45°	16	15
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P886329

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D40FL-TL2RDMBB-550LM-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1237.0
2.5°	1232.4
5°	1203.3
7.5°	1158.0
10°	1094.1
12.5°	1004.7
15°	896.7
17.5°	780.5
20°	666.7
22.5°	552.9
25°	437.9
27.5°	338.0
30°	260.2
32.5°	189.3
35°	123.1
37.5°	76.7
40°	49.9
42.5°	30.2
45°	16.3
47.5°	7.0
50°	4.6
52.5°	2.3
55°	1.2
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
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

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



— 0°-180°

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)