

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: P886263

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMB-550LM-4000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMB-550LM-4000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

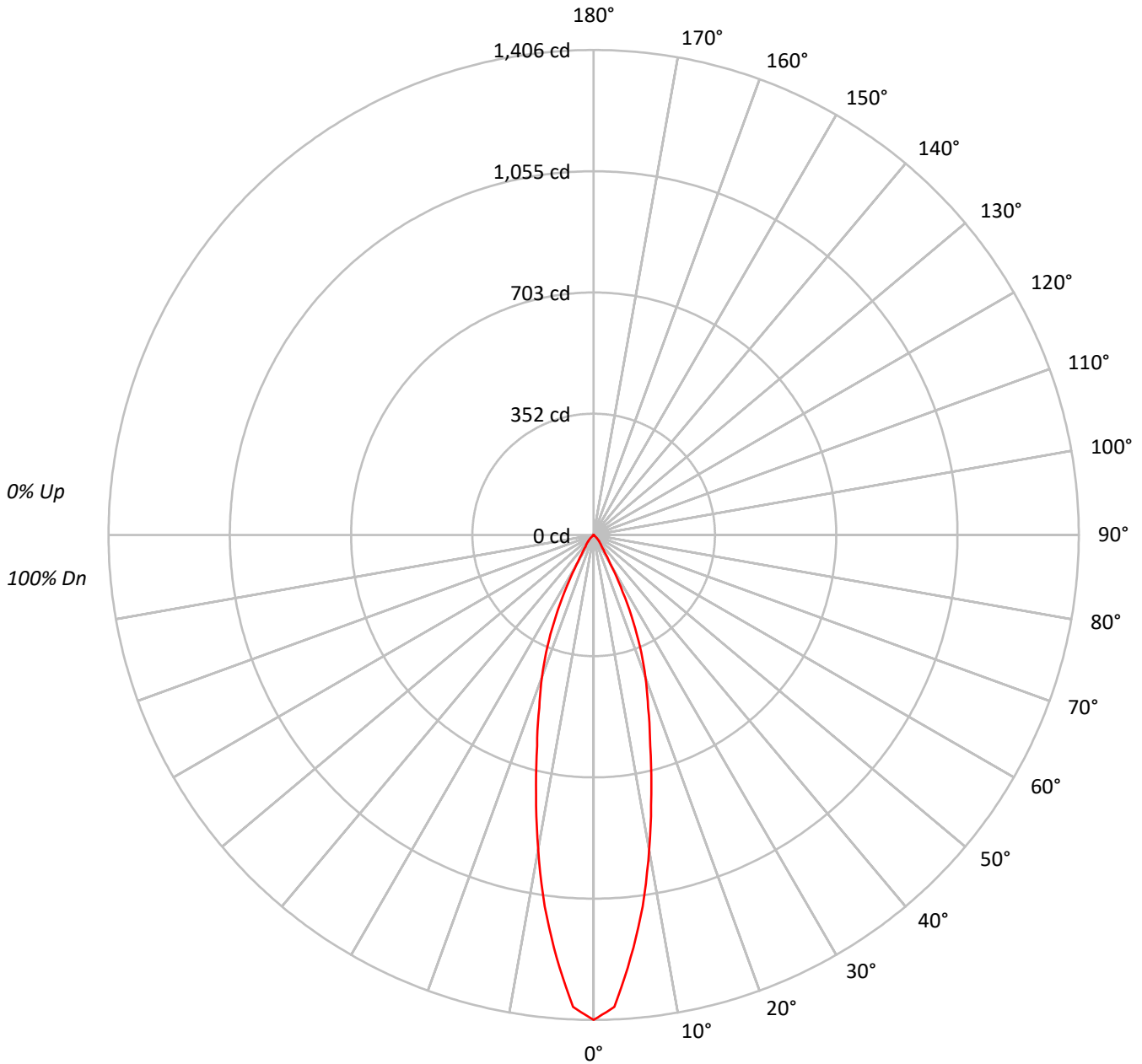
Lumens per Lamp: N/A
Luminaire Lumens: 441.9 lumens
Efficiency: N/A
Efficacy: 55.9 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.52
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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: P886263
CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMB-550LM-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P886263

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDDB-550LM-4000K

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	115	112	110	108	112	110	108	107	106	105	103		102	101	100		99	98	97	96
2	110	106	103	100	108	105	102	99	101	99	97		99	97	95		96	94	93	91
3	106	101	97	94	104	100	96	93	97	94	92		95	92	90		93	91	89	87
4	102	96	92	88	101	95	91	88	93	90	87		91	88	86		89	87	85	84
5	98	92	87	84	97	91	87	83	89	86	83		88	85	82		86	84	81	80
6	95	88	83	80	94	87	83	79	86	82	79		84	81	78		83	80	78	77
7	92	84	80	76	90	84	79	76	83	79	76		81	78	75		80	77	75	74
8	88	81	76	73	87	80	76	73	79	75	73		79	75	72		78	74	72	71
9	86	78	73	70	85	77	73	70	77	73	70		76	72	70		75	72	69	68
10	83	75	70	67	82	75	70	67	74	70	67		73	70	67		73	69	67	66

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	693692
5°	609274
10°	464068
15°	323531
20°	229812
25°	140778
30°	56059
35°	25297
40°	16359
45°	8512
50°	844
55°	946
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8512 cd/sqm



TEST NUMBER: P886263

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDDB-550LM-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	24.5
10°-20°	178.0	40.3
20°-30°	116.2	26.3
30°-40°	30.1	6.8
40°-50°	8.9	2.0
50°-60°	0.6	0.1
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°	402.3	91.0
0°-40°	432.4	97.8
0°-60°	441.9	100.0
0°-90°	441.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	441.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1406	
5°	1230	108
15°	633	178
25°	259	116
35°	42	30
45°	12	9
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P886263

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMB-550LM-4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1406.0
2.5°	1369.5
5°	1230.2
7.5°	1086.5
10°	926.3
12.5°	770.4
15°	633.4
17.5°	525.0
20°	437.7
22.5°	350.4
25°	258.6
27.5°	168.0
30°	98.4
32.5°	59.7
35°	42.0
37.5°	33.2
40°	25.4
42.5°	19.9
45°	12.2
47.5°	2.2
50°	1.1
52.5°	1.1
55°	1.1
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)