

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: P886253

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMB-200LM-4000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886253  
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-200LM-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**

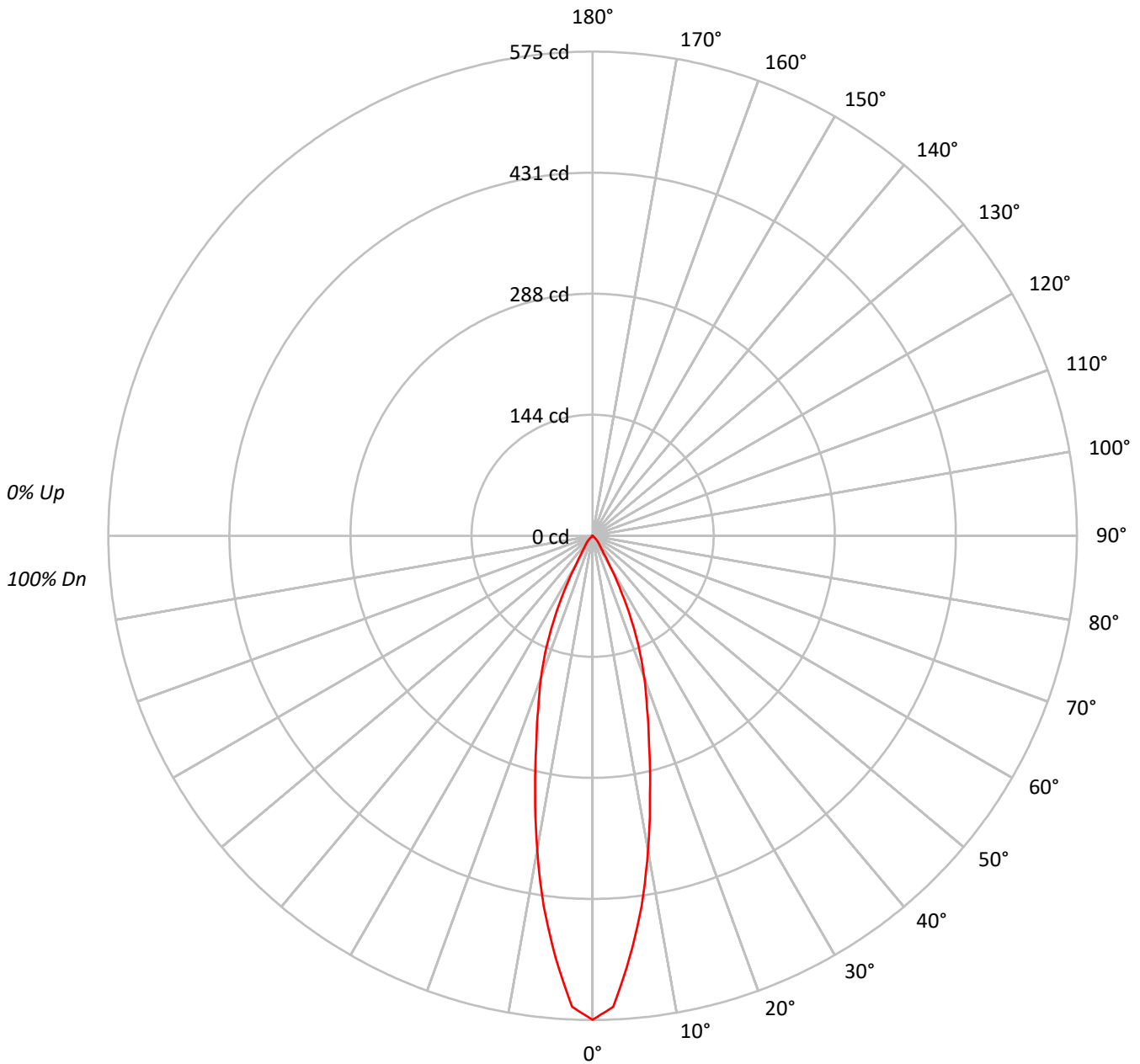
Lumens per Lamp: N/A  
Luminaire Lumens: 180.7 lumens  
Efficiency: N/A  
Efficacy: 50.2 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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



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### Luminous Intensity Polar Plot





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CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDDB-200LM-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	84	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	79	76	90	84	79	76	82	78	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°	283595
5°	249068
10°	189725
15°	132242
20°	93930
25°	57541
30°	22902
35°	10360
40°	6698
45°	3489
50°	384
55°	430
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3489 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.2	24.5
10°-20°	72.7	40.3
20°-30°	47.5	26.3
30°-40°	12.3	6.8
40°-50°	3.6	2.0
50°-60°	0.3	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°	164.4	91.0
0°-40°	176.8	97.8
0°-60°	180.7	100.0
0°-90°	180.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	180.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	575	
5°	503	44
15°	259	73
25°	106	47
35°	17	12
45°	5	4
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	574.8
2.5°	559.8
5°	502.9
7.5°	444.2
10°	378.7
12.5°	314.9
15°	258.9
17.5°	214.6
20°	178.9
22.5°	143.2
25°	105.7
27.5°	68.7
30°	40.2
32.5°	24.4
35°	17.2
37.5°	13.6
40°	10.4
42.5°	8.1
45°	5.0
47.5°	0.9
50°	0.5
52.5°	0.5
55°	0.5
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

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— 0°-180°

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Scaled Data Report



(END OF REPORT)