

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: P886260

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMB-550LM-2700K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886260  
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-2700K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

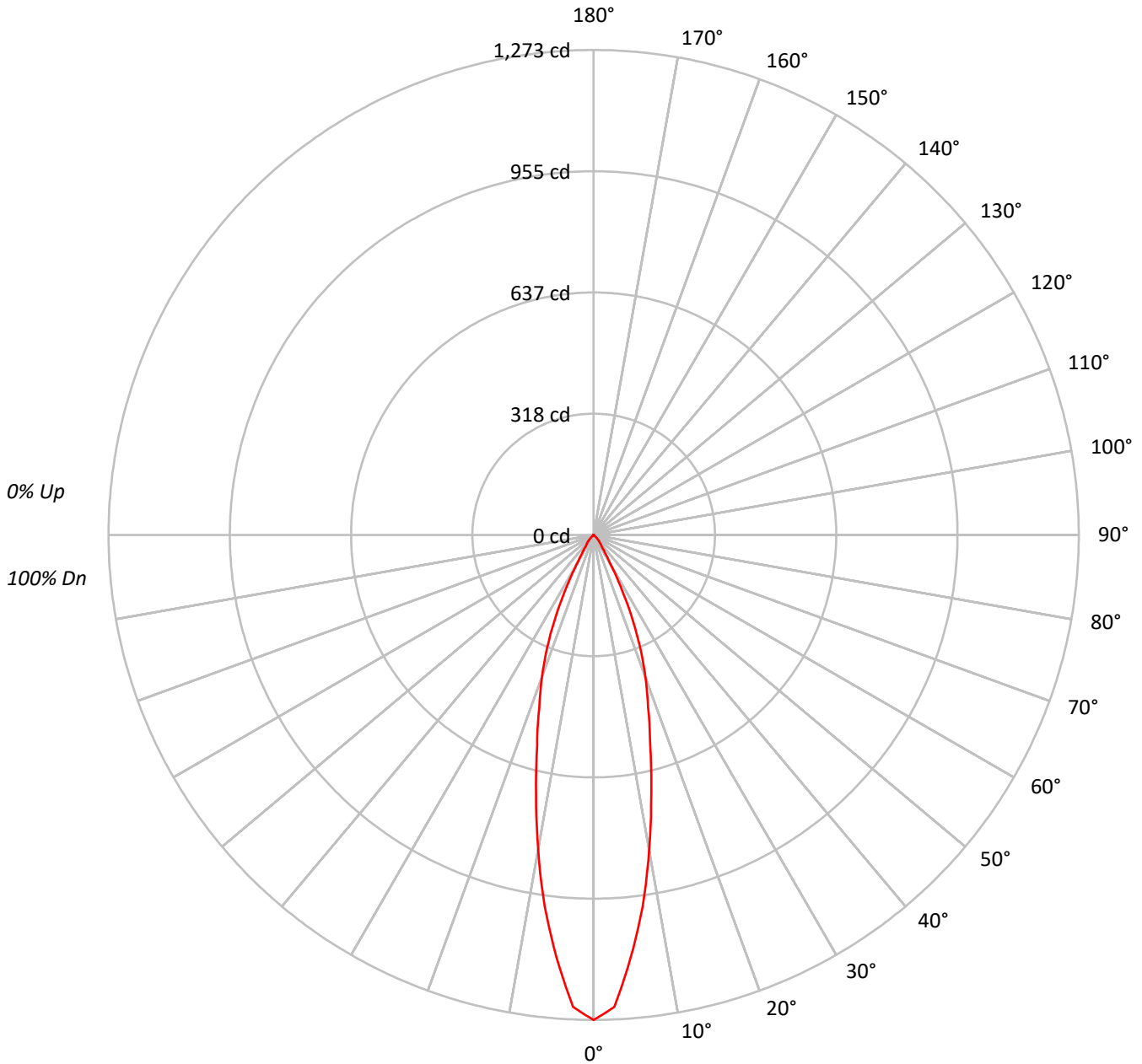
Lumens per Lamp: N/A  
Luminaire Lumens: 400.2 lumens  
Efficiency: N/A  
Efficacy: 50.7 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





TEST NUMBER: P886260

CATALOG NUMBER: ML204LSFL9FS1E-TIR1D25NFL-TL2RDDB-550LM-2700K

**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	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°	628220
5°	551774
10°	420281
15°	292986
20°	208127
25°	127495
30°	50761
35°	22888
40°	14813
45°	7675
50°	768
55°	860
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7675 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.9	24.5
10°-20°	161.2	40.3
20°-30°	105.2	26.3
30°-40°	27.3	6.8
40°-50°	8.1	2.0
50°-60°	0.5	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°	364.3	91.0
0°-40°	391.6	97.9
0°-60°	400.2	100.0
0°-90°	400.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	400.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1273	
5°	1114	98
15°	574	161
25°	234	105
35°	38	27
45°	11	8
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1273.3
2.5°	1240.3
5°	1114.1
7.5°	984.0
10°	838.9
12.5°	697.7
15°	573.6
17.5°	475.5
20°	396.4
22.5°	317.3
25°	234.2
27.5°	152.2
30°	89.1
32.5°	54.1
35°	38.0
37.5°	30.0
40°	23.0
42.5°	18.0
45°	11.0
47.5°	2.0
50°	1.0
52.5°	1.0
55°	1.0
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)