

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: P886277

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMWB-550LM-3500K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886277  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-74)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/18/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMWB-550LM-3500K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

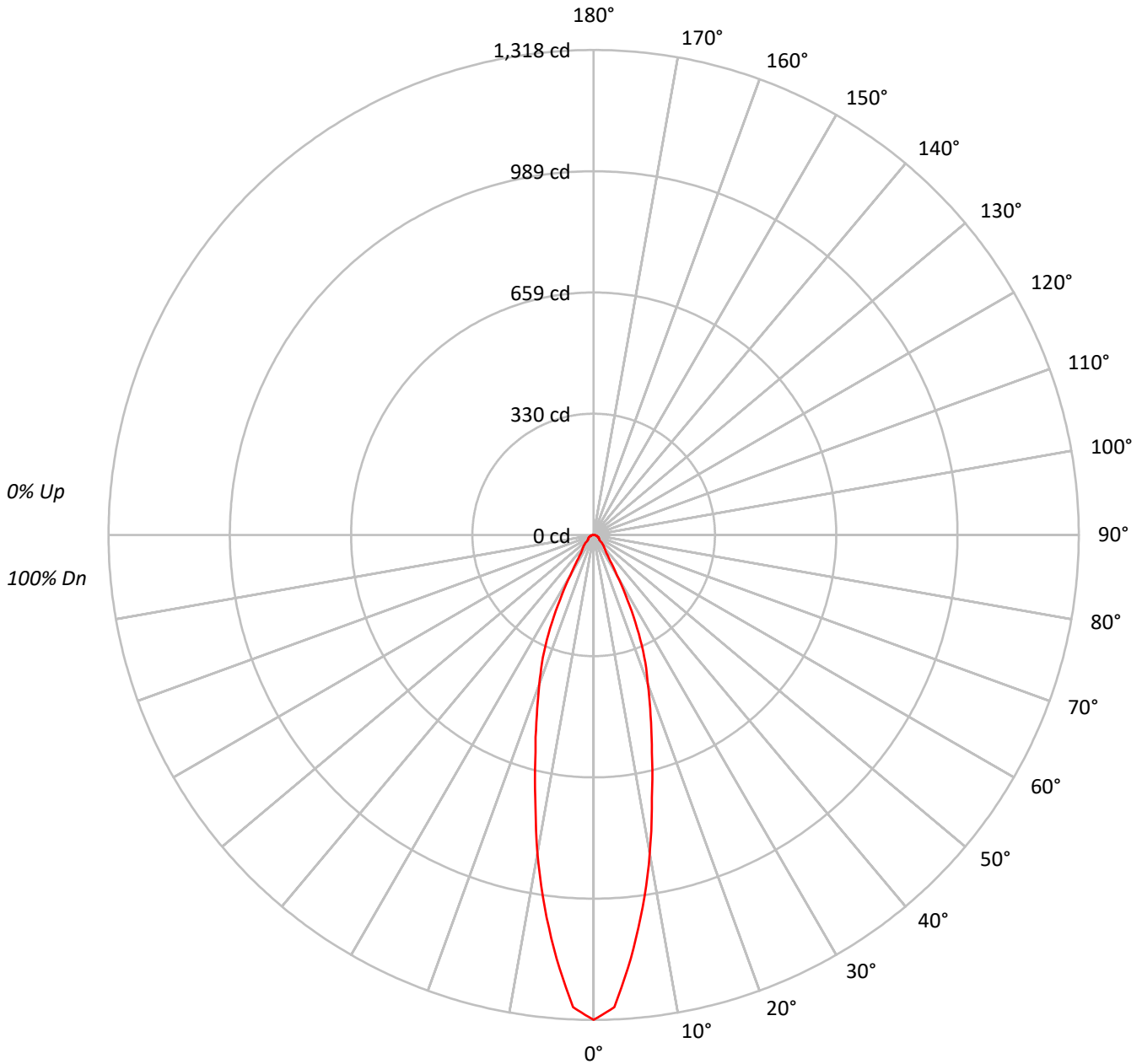
Lumens per Lamp: N/A  
Luminaire Lumens: 504.7 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.54  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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





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**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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82																			
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77																			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73																			
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69																			
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	74	70	67	66																			
8	83	74	69	65	82	74	68	65	73	68	64	72	67	64	71	67	64	63																			
9	80	71	66	62	79	70	65	62	70	65	62	69	64	61	68	64	61	60																			
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	61	59	57																			

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

	0°
0°	650225
5°	572426
10°	440170
15°	312089
20°	226189
25°	152101
30°	71669
35°	36620
40°	28854
45°	23095
50°	15582
55°	15569
60°	15788
65°	14943
70°	13848
75°	14297
80°	12217
85°	11888

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23095 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.7	20.2
10°-20°	171.5	34.0
20°-30°	125.0	24.8
30°-40°	43.1	8.5
40°-50°	24.4	4.8
50°-60°	16.2	3.2
60°-70°	12.7	2.5
70°-80°	7.7	1.5
80°-90°	2.3	0.5
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°	398.2	78.9
0°-40°	441.3	87.4
0°-60°	481.9	95.5
0°-90°	504.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	504.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1318	
5°	1156	102
15°	611	171
25°	279	125
35°	61	43
45°	33	24
55°	18	16
65°	13	13
75°	8	8
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1317.9
2.5°	1284.9
5°	1155.8
7.5°	1020.4
10°	878.6
12.5°	731.5
15°	611.0
17.5°	512.9
20°	430.8
22.5°	360.4
25°	279.4
27.5°	198.3
30°	125.8
32.5°	83.2
35°	60.8
37.5°	51.2
40°	44.8
42.5°	39.5
45°	33.1
47.5°	22.4
50°	20.3
52.5°	19.2
55°	18.1
57.5°	17.1
60°	16.0
62.5°	13.9
65°	12.8
67.5°	11.7
70°	9.6
72.5°	8.5
75°	7.5
77.5°	6.4
80°	4.3
82.5°	3.2
85°	2.1
87.5°	1.1
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)