

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: P886270

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMW-550LM-2700K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886270  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-71)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/18/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMW-550LM-2700K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

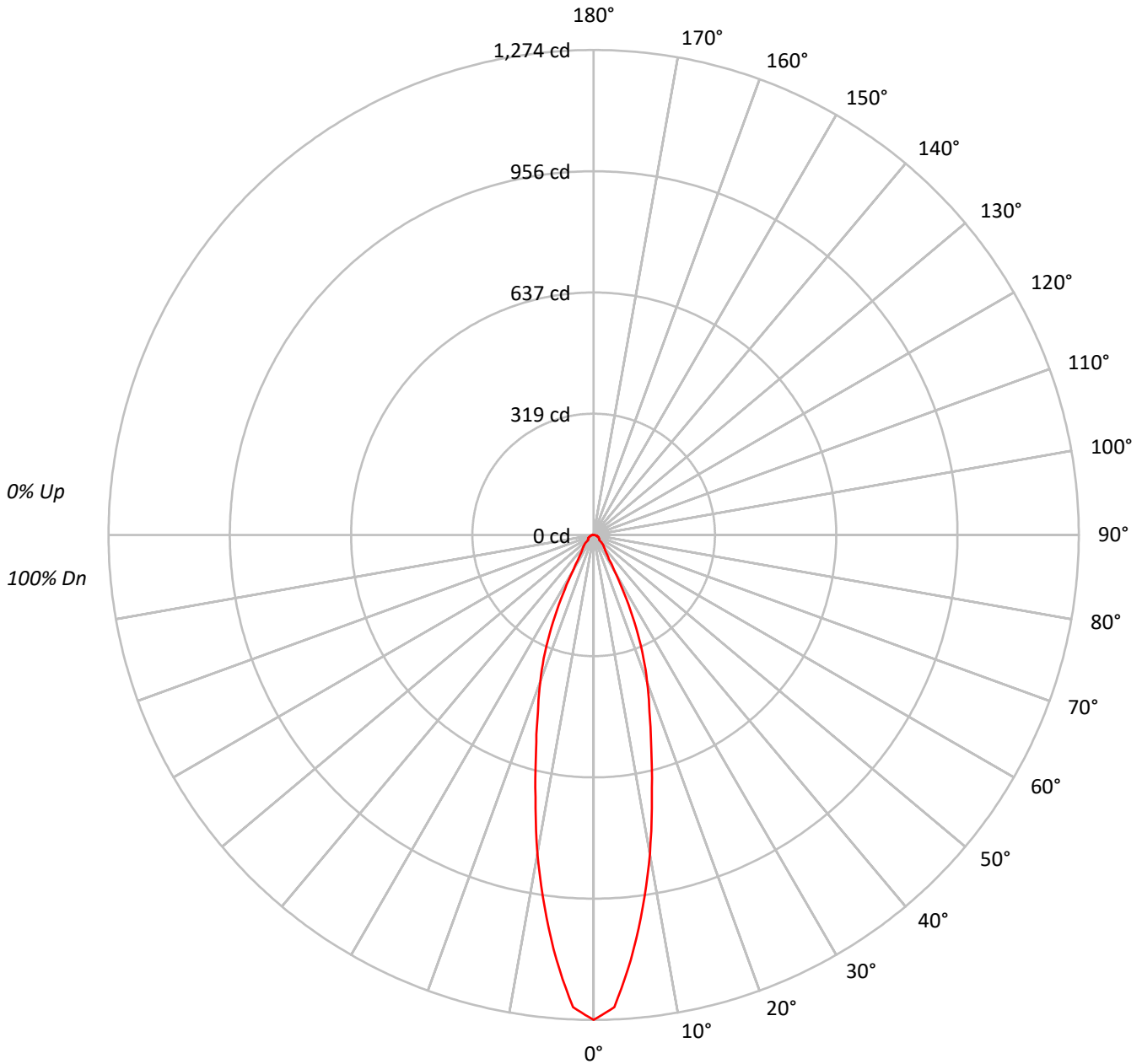
Lumens per Lamp: N/A  
Luminaire Lumens: 478.8 lumens  
Efficiency: N/A  
Efficacy: 60.6 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81																			
4	98	91	85	81	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	88	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	71	65	62	70	65	62	69	65	61	68	64	61	60																			
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58																			

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

	0°
0°	628566
5°	555191
10°	425842
15°	298298
20°	215268
25°	137185
30°	62668
35°	34331
40°	27695
45°	21630
50°	14584
55°	15483
60°	15788
65°	15177
70°	14425
75°	15250
80°	14206
85°	11322

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21630 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	20.6
10°-20°	164.2	34.3
20°-30°	114.0	23.8
30°-40°	39.5	8.3
40°-50°	23.1	4.8
50°-60°	16.0	3.3
60°-70°	12.9	2.7
70°-80°	8.0	1.7
80°-90°	2.6	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°	376.6	78.7
0°-40°	416.1	86.9
0°-60°	455.3	95.1
0°-90°	478.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	478.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1274	
5°	1121	98
15°	584	164
25°	252	114
35°	57	40
45°	31	23
55°	18	16
65°	13	13
75°	8	8
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1274
2.5°	1242
5°	1121
7.5°	987
10°	850
12.5°	705
15°	584
17.5°	487
20°	410
22.5°	335
25°	252
27.5°	174
30°	110
32.5°	74
35°	57
37.5°	49
40°	43
42.5°	38
45°	31
47.5°	21
50°	19
52.5°	19
55°	18
57.5°	17
60°	16
62.5°	14
65°	13
67.5°	12
70°	10
72.5°	9
75°	8
77.5°	6
80°	5
82.5°	4
85°	2
87.5°	1
90°	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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(END OF REPORT)