

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: P886445

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2RDMW-400LM-3000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886445  
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: ML204LSFLD2W1E-TIR1D25NFL-TL2RDMW-400LM-3000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM  
Light Source: (1) D2W LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

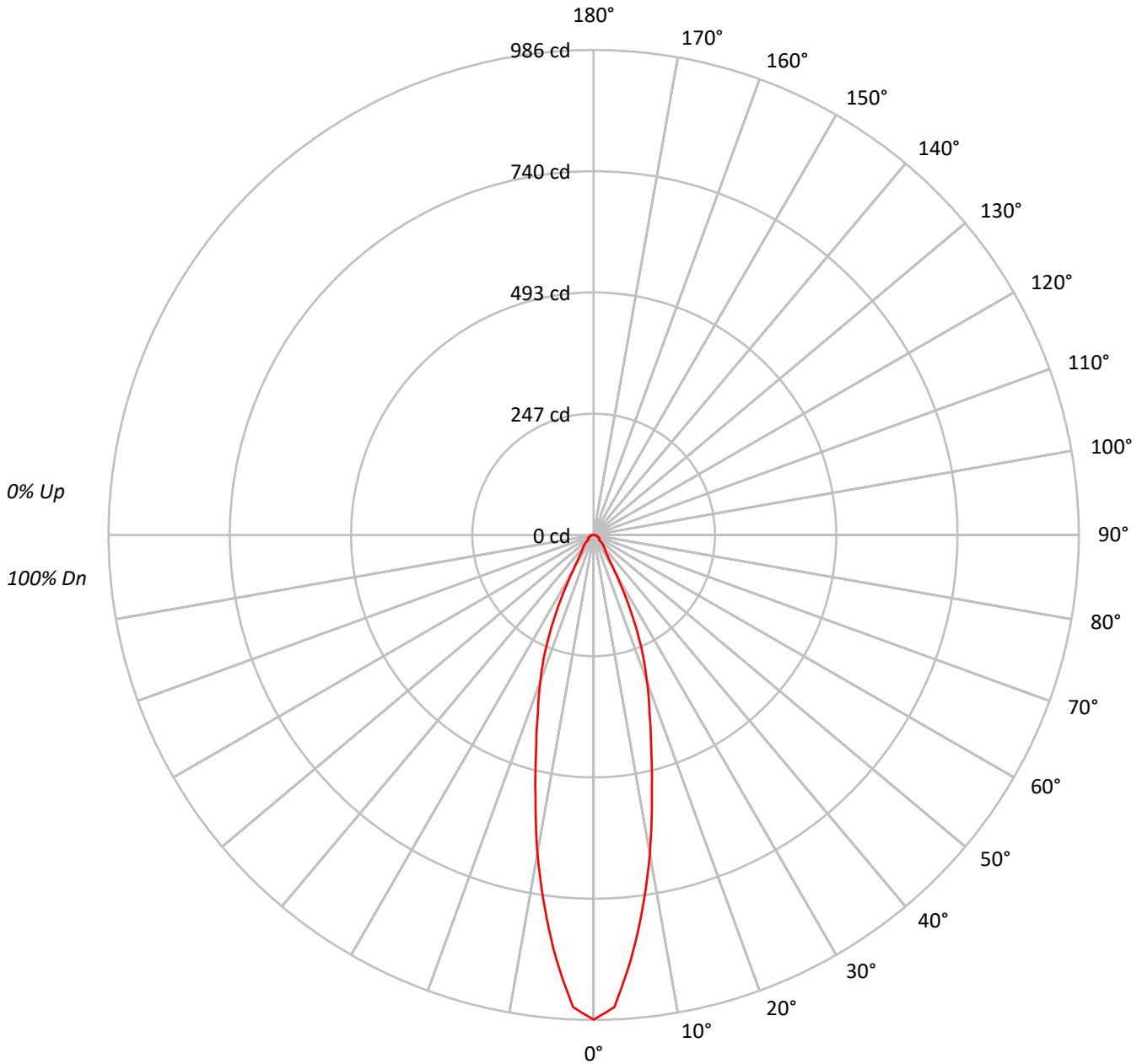
Lumens per Lamp: N/A  
Luminaire Lumens: 370.4 lumens  
Efficiency: N/A  
Efficacy: 59.7 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 6.2  
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				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				100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93				93
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87				87
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81				81
4	98	91	85	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77				77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73				73
6	90	82	76	72	88	81	76	72	79	75	71	78	74	71	77	73	70	69				69
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	74	70	67	66				66
8	83	74	69	65	82	74	68	65	73	68	64	72	67	64	71	67	64	63				63
9	80	71	66	62	79	71	65	62	70	65	62	69	65	61	68	64	61	60				60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58				58

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

	0°
0°	486275
5°	429493
10°	329452
15°	230772
20°	166544
25°	106155
30°	48482
35°	26562
40°	21447
45°	16746
50°	11283
55°	11957
60°	12236
65°	11791
70°	11108
75°	11819
80°	11081
85°	8491

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16746 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.2	20.6
10°-20°	127.0	34.3
20°-30°	88.2	23.8
30°-40°	30.6	8.3
40°-50°	17.9	4.8
50°-60°	12.4	3.3
60°-70°	10.0	2.7
70°-80°	6.2	1.7
80°-90°	2.0	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°	291.4	78.7
0°-40°	322.0	86.9
0°-60°	352.2	95.1
0°-90°	370.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	370.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	986	
5°	867	76
15°	452	127
25°	195	88
35°	44	31
45°	24	18
55°	14	12
65°	10	10
75°	6	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	985.6
2.5°	960.9
5°	867.2
7.5°	763.6
10°	657.6
12.5°	545.4
15°	451.8
17.5°	376.8
20°	317.2
22.5°	259.2
25°	195.0
27.5°	134.6
30°	85.1
32.5°	57.2
35°	44.1
37.5°	37.9
40°	33.3
42.5°	29.4
45°	24.0
47.5°	16.2
50°	14.7
52.5°	14.7
55°	13.9
57.5°	13.2
60°	12.4
62.5°	10.8
65°	10.1
67.5°	9.3
70°	7.7
72.5°	7.0
75°	6.2
77.5°	4.6
80°	3.9
82.5°	3.1
85°	1.5
87.5°	0.8
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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(END OF REPORT)