

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: P886494

Luminaire Tested: ML204LSFLD2W1E-TIR1D55WFL-TL2RDMWB-400LM-3500K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886494  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-86)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFLD2W1E-TIR1D55WFL-TL2RDMWB-400LM-3500K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM  
Light Source: (1) D2W LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 413.6 lumens  
Efficiency: N/A  
Efficacy: 66.7 lumens/watt  
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.82  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

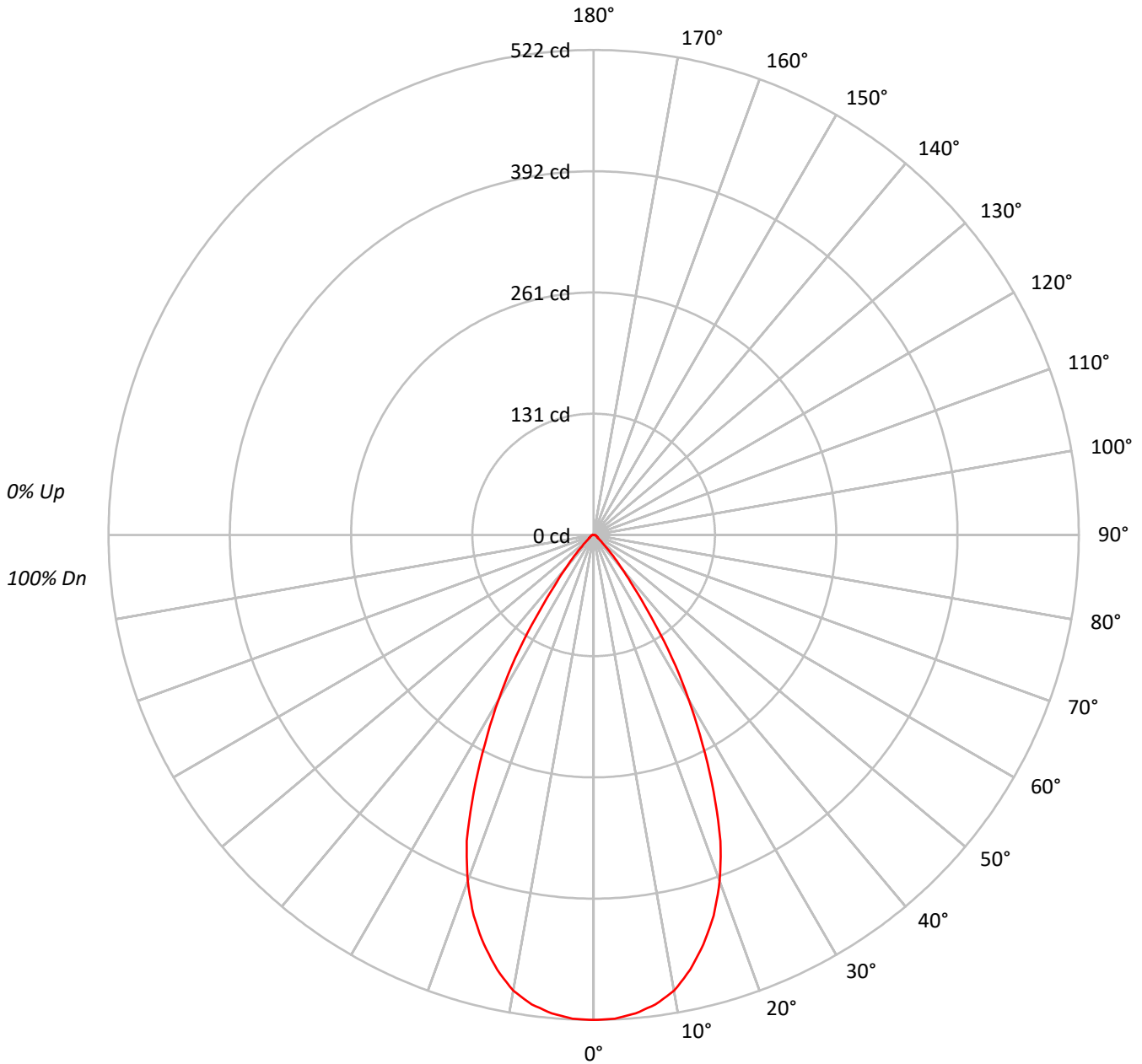
Input Watts (W): 6.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	109	106	104	104	103	101	101	99	98	97	96	95	93																												
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87																												
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81																												
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76																												
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71																												
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																												
7	84	75	70	65	83	75	69	65	73	69	65	72	68	65	71	67	64	63																												
8	81	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	61	59																												
9	77	68	62	58	76	67	62	58	66	61	58	65	61	57	64	60	57	56																												
10	73	64	58	55	73	64	58	55	63	58	54	62	58	54	61	57	54	53																												

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

	0°
0°	257544
5°	256052
10°	249594
15°	233071
20°	208127
25°	166255
30°	116391
35°	64808
40°	30206
45°	13606
50°	7215
55°	4989
60°	4243
65°	4203
70°	4183
75°	4194
80°	3978
85°	3963

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13606 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.8	11.8
10°-20°	127.0	30.7
20°-30°	138.0	33.4
30°-40°	70.1	16.9
40°-50°	17.4	4.2
50°-60°	5.4	1.3
60°-70°	3.7	0.9
70°-80°	2.5	0.6
80°-90°	0.8	0.2
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°	313.8	75.9
0°-40°	383.9	92.8
0°-60°	406.6	98.3
0°-90°	413.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	413.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	522	
5°	517	49
15°	456	127
25°	305	138
35°	108	70
45°	20	17
55°	6	5
65°	4	4
75°	2	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	522.0
2.5°	521.3
5°	517.0
7.5°	509.7
10°	498.2
12.5°	479.4
15°	456.3
17.5°	429.6
20°	396.4
22.5°	356.7
25°	305.4
27.5°	253.4
30°	204.3
32.5°	156.7
35°	107.6
37.5°	69.3
40°	46.9
42.5°	31.0
45°	19.5
47.5°	13.0
50°	9.4
52.5°	7.2
55°	5.8
57.5°	4.3
60°	4.3
62.5°	4.3
65°	3.6
67.5°	3.6
70°	2.9
72.5°	2.9
75°	2.2
77.5°	2.2
80°	1.4
82.5°	1.4
85°	0.7
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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(END OF REPORT)