

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: P886449

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2RDSL-400LM-3000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-72)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/18/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFLD2W1E-TIR1D25NFL-TL2RDSL-400LM-3000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM  
Light Source: (1) D2W LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 354.8 lumens  
Efficiency: N/A  
Efficacy: 57.2 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

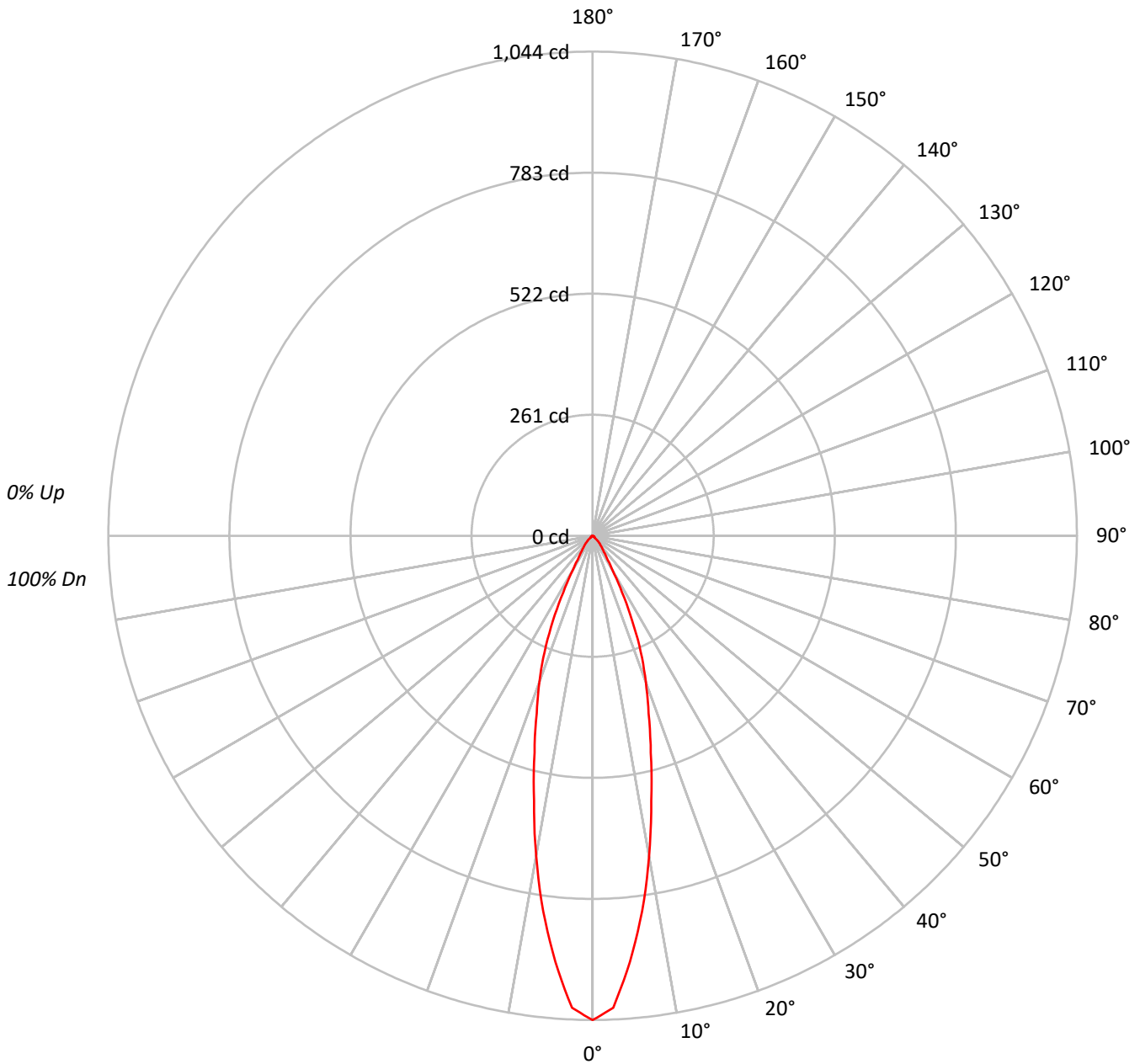
Input Watts (W): 6.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
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	0		
RCR	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100		
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95	95	95		
	2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90	90	90	90	90	90		
	3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86	86	86	86	86	86		
	4	101	95	90	86	99	94	89	86	92	88	85	90	87	84	88	85	83	82	82	82	82	82	82		
	5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	78	78	78	78	78	78		
	6	93	86	81	77	92	85	81	77	84	80	77	83	79	76	81	78	76	74	74	74	74	74	74		
	7	90	82	77	74	89	82	77	74	80	76	73	79	76	73	78	75	72	71	71	71	71	71	71		
	8	87	79	74	70	86	78	74	70	77	73	70	76	73	70	75	72	69	68	68	68	68	68	68		
	9	84	76	71	67	83	75	71	67	74	70	67	74	70	67	73	69	67	66	66	66	66	66	66		
	10	81	73	68	65	80	72	68	65	72	67	65	71	67	64	70	67	64	63	63	63	63	63	63		

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

	0°
0°	515187
5°	456634
10°	351445
15°	247322
20°	175837
25°	109911
30°	48482
35°	25598
40°	17454
45°	10815
50°	4145
55°	3355
60°	2270
65°	1751
70°	1154
75°	1525
80°	2273
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10815 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	22.9
10°-20°	135.6	38.2
20°-30°	91.4	25.8
30°-40°	29.0	8.2
40°-50°	11.4	3.2
50°-60°	3.4	1.0
60°-70°	1.7	0.5
70°-80°	0.8	0.2
80°-90°	0.1	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°	308.2	86.9
0°-40°	337.3	95.1
0°-60°	352.2	99.3
0°-90°	354.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	354.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1044	
5°	922	81
15°	484	136
25°	202	91
35°	42	29
45°	16	11
55°	4	3
65°	2	2
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1044.2
2.5°	1018.6
5°	922.0
7.5°	816.8
10°	701.5
12.5°	584.7
15°	484.2
17.5°	401.4
20°	334.9
22.5°	271.5
25°	201.9
27.5°	136.9
30°	85.1
32.5°	56.5
35°	42.5
37.5°	34.0
40°	27.1
42.5°	21.7
45°	15.5
47.5°	7.0
50°	5.4
52.5°	4.6
55°	3.9
57.5°	3.1
60°	2.3
62.5°	2.3
65°	1.5
67.5°	1.5
70°	0.8
72.5°	0.8
75°	0.8
77.5°	0.8
80°	0.8
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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(END OF REPORT)