

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: P886468

Luminaire Tested: ML204LSFLD2W1E-TIR1D40FL-TL2RDMW-400LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886468
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D40FL-TL2RDMW-400LM-3500K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM
Light Source: (1) D2W LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 432.2 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.67
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

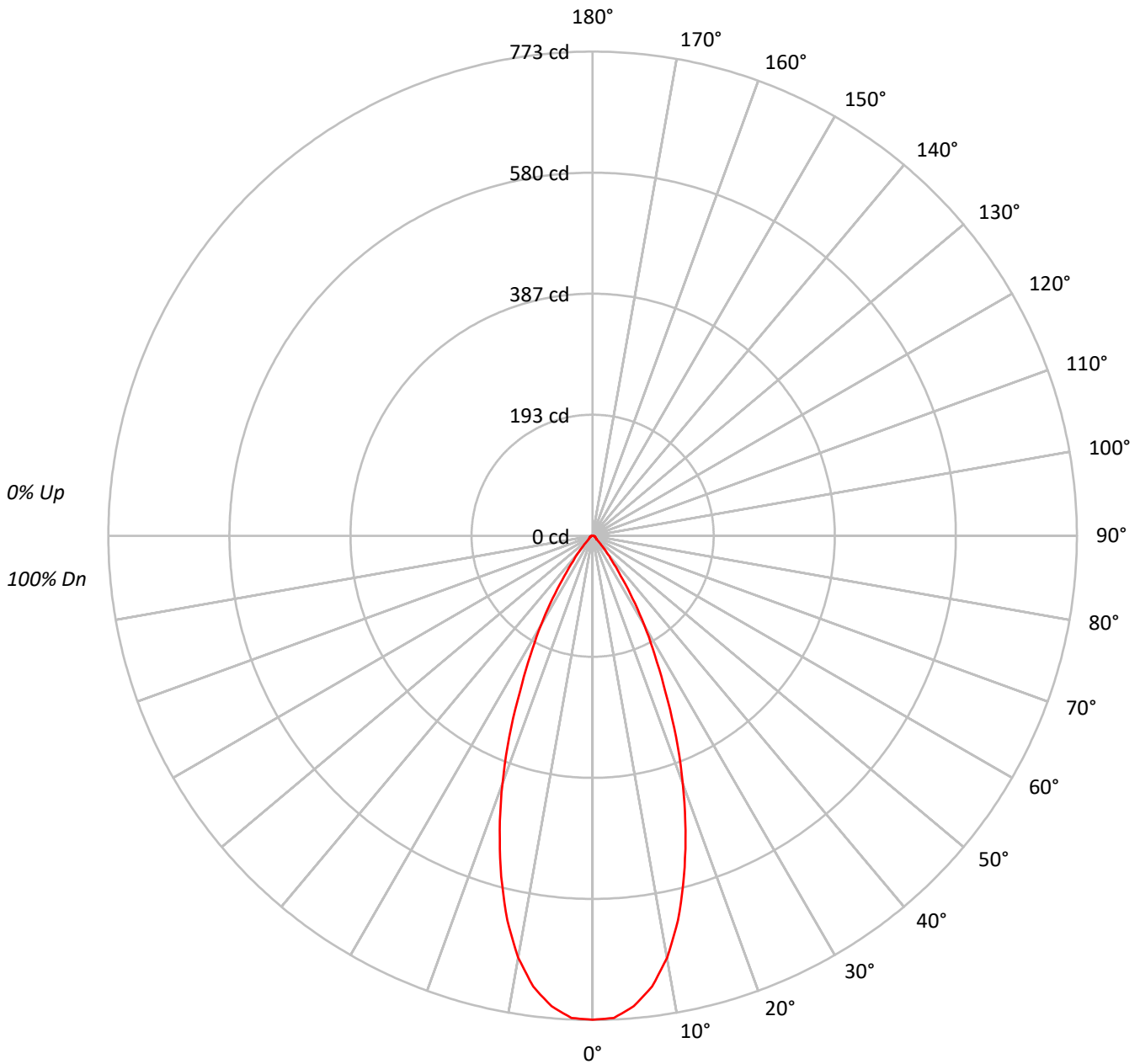
Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83	83	83	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78	78	78	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74	74	74	74
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70	70	70	70
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67	67	67	67
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	65	63	63	63	63
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	61	60	60	60	60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58	58	58	58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	381234
5°	373429
10°	342628
15°	287725
20°	221043
25°	149379
30°	93831
35°	46980
40°	23251
45°	10048
50°	6064
55°	4989
60°	5032
65°	5020
70°	5193
75°	5528
80°	6251
85°	3963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10048 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	16.1
10°-20°	154.8	35.8
20°-30°	127.1	29.4
30°-40°	53.2	12.3
40°-50°	13.2	3.0
50°-60°	5.7	1.3
60°-70°	4.5	1.0
70°-80°	3.1	0.7
80°-90°	1.1	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°	351.6	81.4
0°-40°	404.8	93.7
0°-60°	423.7	98.0
0°-90°	432.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	432.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	773	
5°	754	70
15°	563	155
25°	274	127
35°	78	53
45°	14	13
55°	6	6
65°	4	4
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	772.7
2.5°	770.6
5°	754.0
7.5°	725.8
10°	683.9
12.5°	629.0
15°	563.3
17.5°	493.2
20°	421.0
22.5°	347.4
25°	274.4
27.5°	214.5
30°	164.7
32.5°	118.4
35°	78.0
37.5°	52.0
40°	36.1
42.5°	23.8
45°	14.4
47.5°	9.4
50°	7.9
52.5°	7.2
55°	5.8
57.5°	5.8
60°	5.1
62.5°	5.1
65°	4.3
67.5°	4.3
70°	3.6
72.5°	3.6
75°	2.9
77.5°	2.2
80°	2.2
82.5°	1.4
85°	0.7
87.5°	0.7
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)