

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: P886333

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2RDMW-550LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886333
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: ML204LSFL9FS1E-TIR1D40FL-TL2RDMW-550LM-4000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 661.1 lumens
Efficiency: N/A
Efficacy: 83.7 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

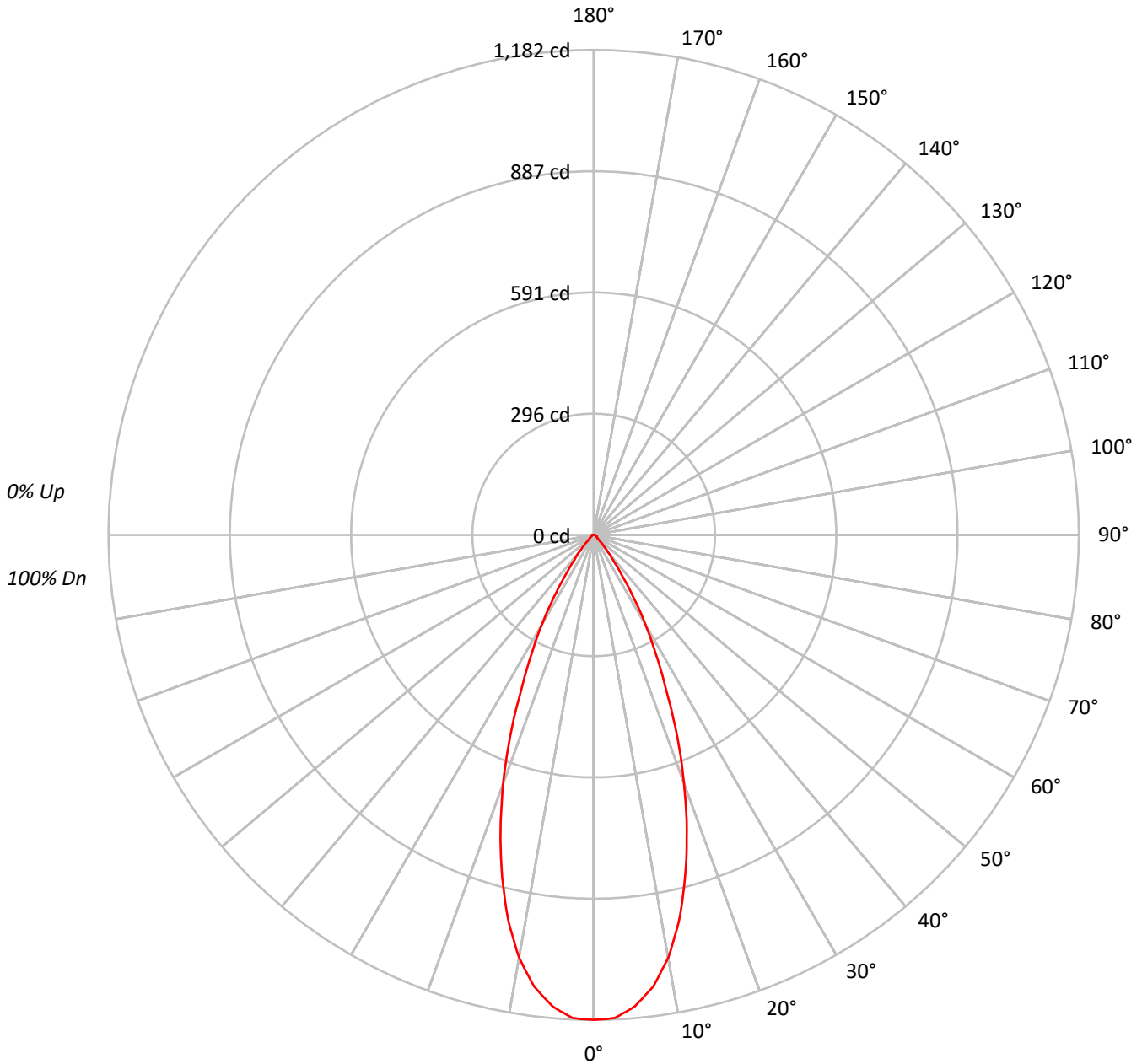
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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			
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83			
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74			
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70			
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67			
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	65	63			
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	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°	583175
5°	571139
10°	524086
15°	440092
20°	338128
25°	228532
30°	143509
35°	71855
40°	35552
45°	15420
50°	9364
55°	7570
60°	7598
65°	7705
70°	7934
75°	8388
80°	9376
85°	6227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15420 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	16.1
10°-20°	236.7	35.8
20°-30°	194.5	29.4
30°-40°	81.3	12.3
40°-50°	20.2	3.1
50°-60°	8.6	1.3
60°-70°	6.8	1.0
70°-80°	4.6	0.7
80°-90°	1.6	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°	537.9	81.4
0°-40°	619.2	93.7
0°-60°	648.0	98.0
0°-90°	661.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	661.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1182	
5°	1153	107
15°	862	237
25°	420	194
35°	119	81
45°	22	20
55°	9	9
65°	7	7
75°	4	5
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1182.0
2.5°	1178.7
5°	1153.2
7.5°	1110.2
10°	1046.1
12.5°	962.1
15°	861.6
17.5°	754.5
20°	644.0
22.5°	531.3
25°	419.8
27.5°	328.1
30°	251.9
32.5°	181.2
35°	119.3
37.5°	79.5
40°	55.2
42.5°	36.5
45°	22.1
47.5°	14.4
50°	12.2
52.5°	11.0
55°	8.8
57.5°	8.8
60°	7.7
62.5°	7.7
65°	6.6
67.5°	6.6
70°	5.5
72.5°	5.5
75°	4.4
77.5°	3.3
80°	3.3
82.5°	2.2
85°	1.1
87.5°	1.1
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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