

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: P886332

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2RDMW-550LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886332
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-3500K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 639.3 lumens
Efficiency: N/A
Efficacy: 80.9 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

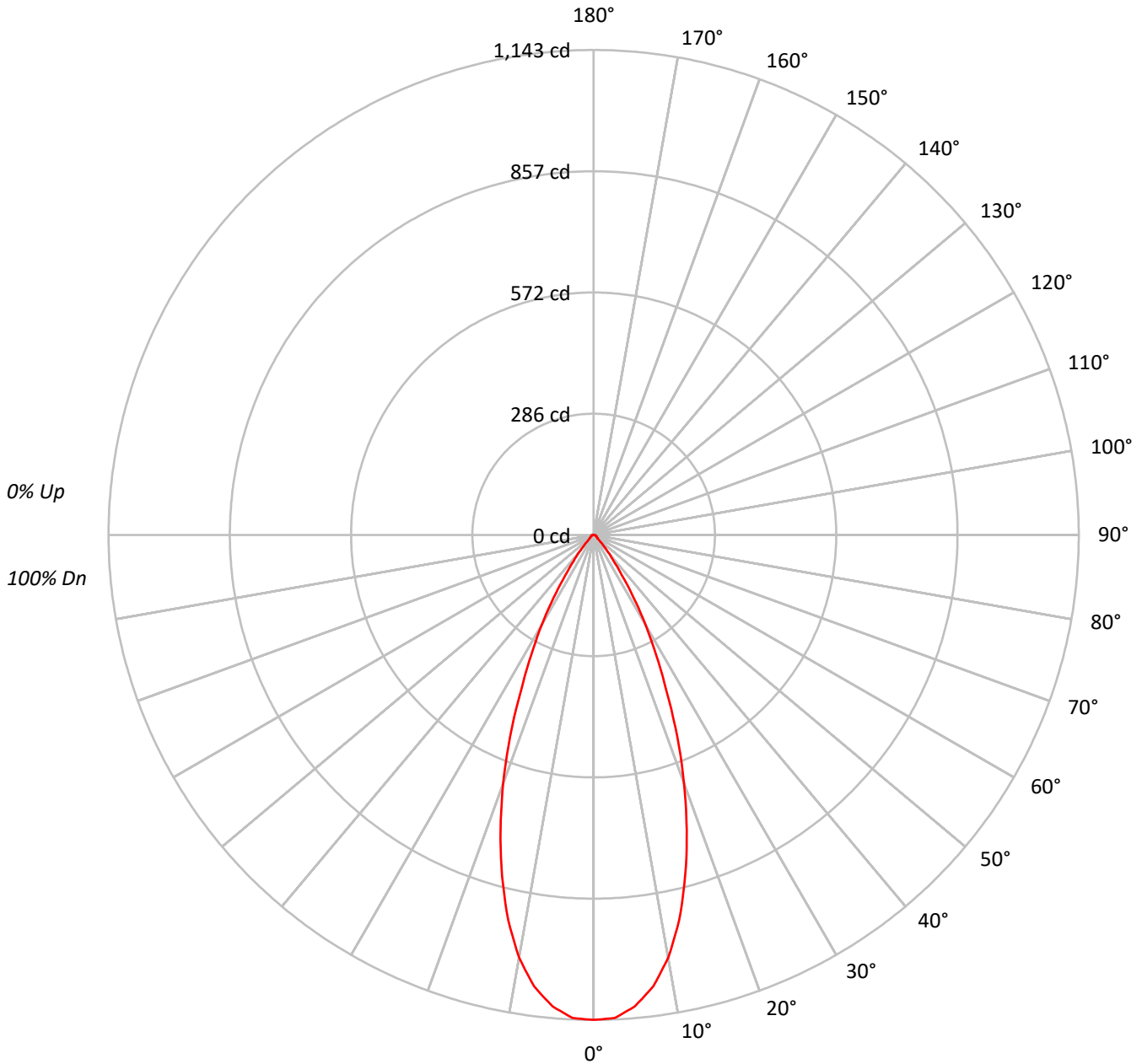
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	563883
5°	552269
10°	506752
15°	425585
20°	326945
25°	220966
30°	138723
35°	69506
40°	34393
45°	14932
50°	8980
55°	7312
60°	7401
65°	7472
70°	7645
75°	8197
80°	9092
85°	6227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14932 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	16.1
10°-20°	228.9	35.8
20°-30°	188.0	29.4
30°-40°	78.7	12.3
40°-50°	19.5	3.1
50°-60°	8.3	1.3
60°-70°	6.6	1.0
70°-80°	4.5	0.7
80°-90°	1.6	0.3
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°	520.1	81.4
0°-40°	598.8	93.7
0°-60°	626.6	98.0
0°-90°	639.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	639.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1143	
5°	1115	103
15°	833	229
25°	406	188
35°	115	79
45°	21	20
55°	8	8
65°	6	7
75°	4	4
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1142.9
2.5°	1139.7
5°	1115.1
7.5°	1073.5
10°	1011.5
12.5°	930.4
15°	833.2
17.5°	729.5
20°	622.7
22.5°	513.8
25°	405.9
27.5°	317.2
30°	243.5
32.5°	175.2
35°	115.4
37.5°	76.9
40°	53.4
42.5°	35.2
45°	21.4
47.5°	13.9
50°	11.7
52.5°	10.7
55°	8.5
57.5°	8.5
60°	7.5
62.5°	7.5
65°	6.4
67.5°	6.4
70°	5.3
72.5°	5.3
75°	4.3
77.5°	3.2
80°	3.2
82.5°	2.1
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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