

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: P886274

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMW-550LM-5000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMW-550LM-5000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 556.2 lumens
Efficiency: N/A
Efficacy: 70.4 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

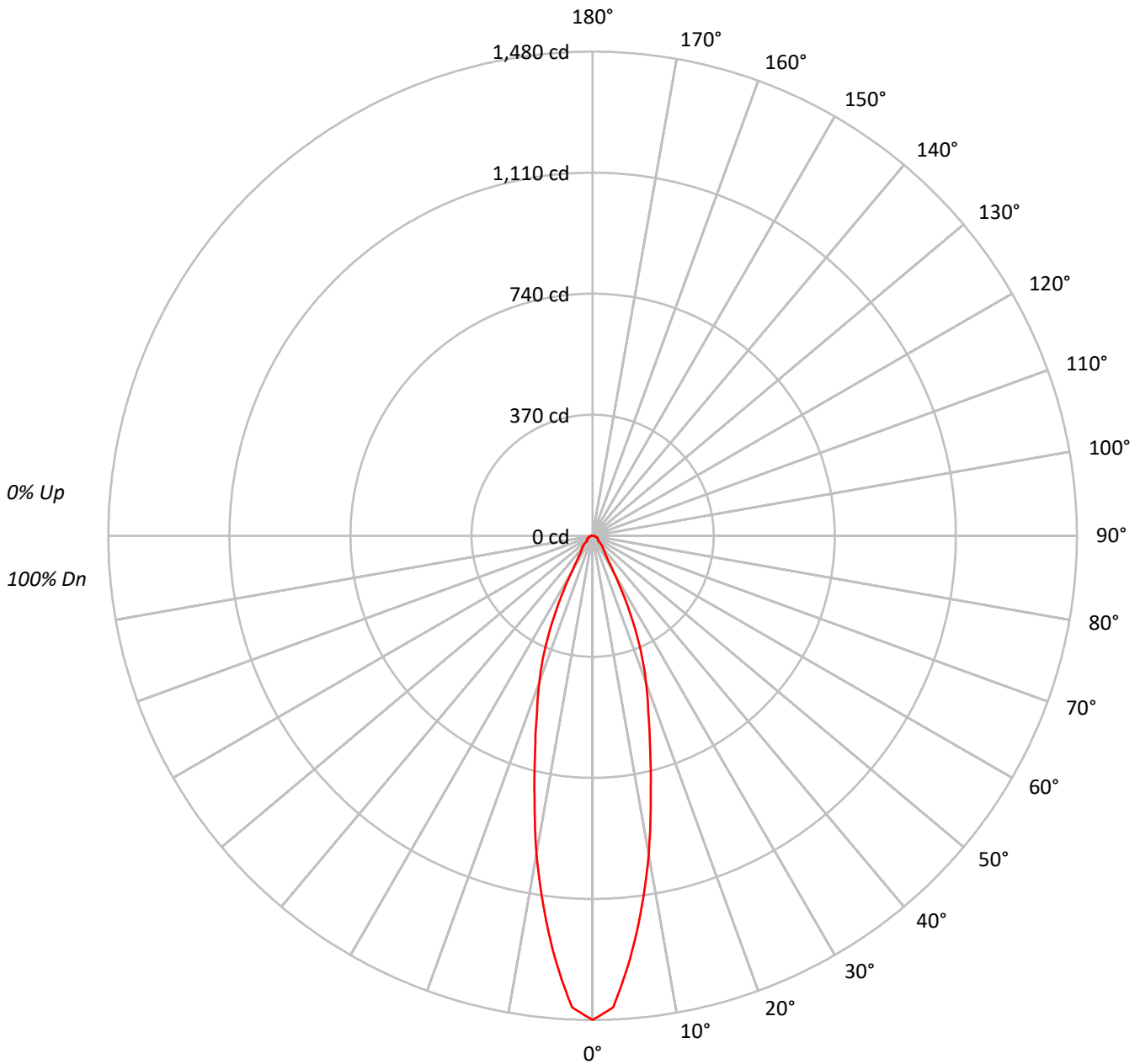
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93					93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87					87			
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81					81			
4	98	91	85	81	96	90	85	81	88	83	80	86	82	79	84	81	78	77					77			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73					73			
6	90	82	76	72	88	81	76	72	79	75	71	78	74	71	77	73	70	69					69			
7	86	78	72	68	85	77	72	68	76	71	68	75	70	67	74	70	67	66					66			
8	83	74	69	65	82	74	68	65	73	68	64	72	67	64	71	67	64	63					63			
9	80	71	66	62	79	71	65	62	70	65	62	69	65	61	68	64	61	60					60			
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	62	59	58					58			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	730202
5°	644983
10°	494678
15°	346516
20°	250078
25°	159341
30°	72808
35°	39873
40°	32203
45°	25119
50°	16963
55°	17978
60°	18354
65°	17628
70°	16734
75°	17728
80°	16479
85°	13020

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25119 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	20.6
10°-20°	190.7	34.3
20°-30°	132.4	23.8
30°-40°	45.9	8.3
40°-50°	26.9	4.8
50°-60°	18.6	3.3
60°-70°	14.9	2.7
70°-80°	9.4	1.7
80°-90°	3.0	0.5
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°	437.5	78.7
0°-40°	483.4	86.9
0°-60°	528.9	95.1
0°-90°	556.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	556.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1480	
5°	1302	114
15°	678	191
25°	293	132
35°	66	46
45°	36	27
55°	21	19
65°	15	15
75°	9	9
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1480.0
2.5°	1442.8
5°	1302.3
7.5°	1146.6
10°	987.4
12.5°	819.0
15°	678.4
17.5°	565.7
20°	476.3
22.5°	389.2
25°	292.7
27.5°	202.1
30°	127.8
32.5°	86.0
35°	66.2
37.5°	56.9
40°	50.0
42.5°	44.1
45°	36.0
47.5°	24.4
50°	22.1
52.5°	22.1
55°	20.9
57.5°	19.7
60°	18.6
62.5°	16.3
65°	15.1
67.5°	13.9
70°	11.6
72.5°	10.5
75°	9.3
77.5°	7.0
80°	5.8
82.5°	4.6
85°	2.3
87.5°	1.2
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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