

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: P886281

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSL-550LM-3000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886281
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: ML204LSFL9FS1E-TIR1D25NFL-TL2RDSL-550LM-3000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

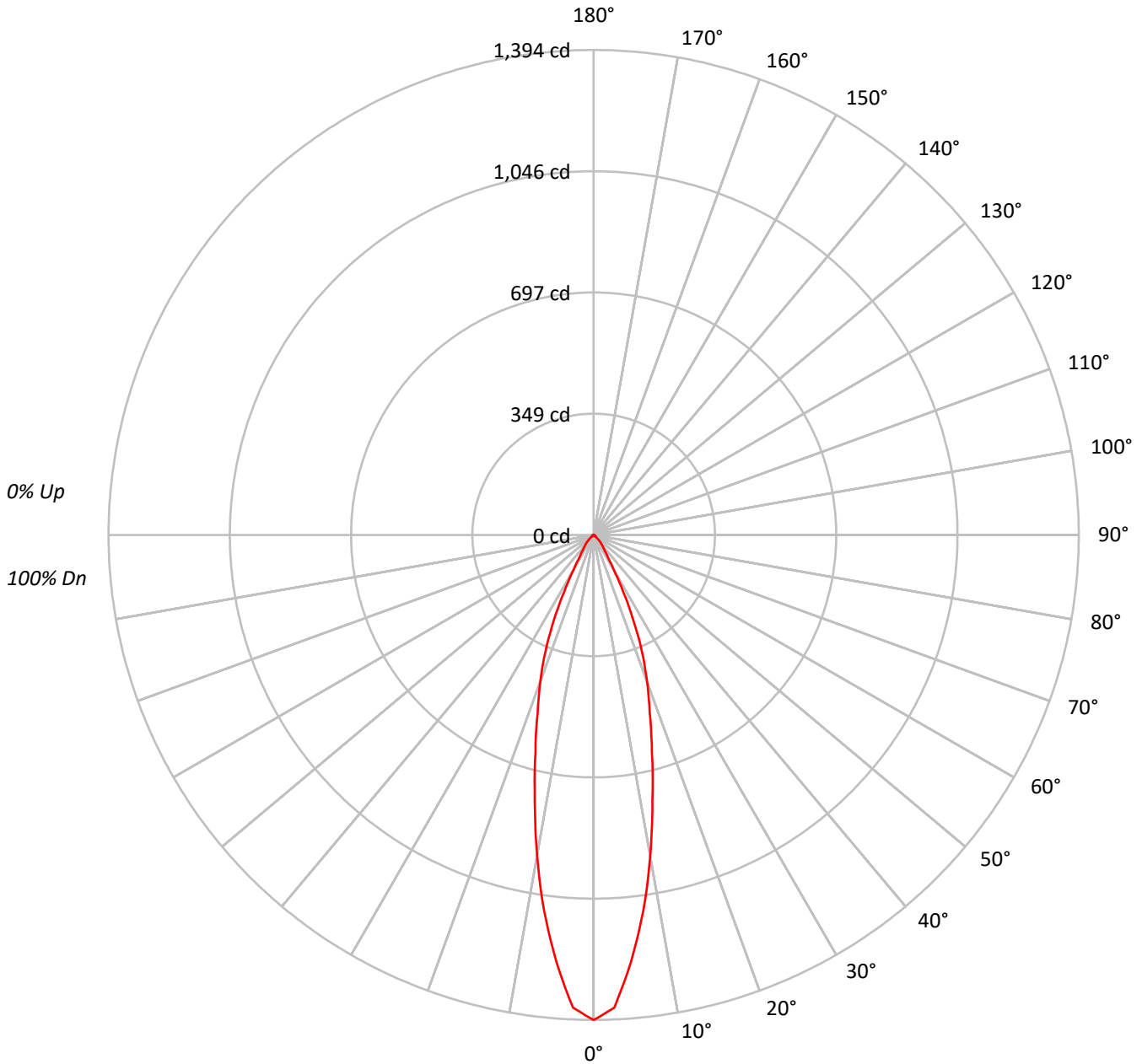
Lumens per Lamp: N/A
Luminaire Lumens: 473.7 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	687870
5°	609720
10°	469278
15°	330222
20°	234799
25°	146766
30°	64719
35°	34211
40°	23251
45°	14443
50°	5526
55°	4473
60°	3059
65°	2452
70°	1443
75°	1906
80°	2841
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14443 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	22.9
10°-20°	181.1	38.2
20°-30°	122.1	25.8
30°-40°	38.8	8.2
40°-50°	15.2	3.2
50°-60°	4.6	1.0
60°-70°	2.3	0.5
70°-80°	1.1	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°	411.6	86.9
0°-40°	450.3	95.1
0°-60°	470.2	99.3
0°-90°	473.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	473.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1394	
5°	1231	108
15°	646	181
25°	270	122
35°	57	39
45°	21	15
55°	5	5
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1394.2
2.5°	1360.2
5°	1231.1
7.5°	1090.6
10°	936.7
12.5°	780.8
15°	646.5
17.5°	536.0
20°	447.2
22.5°	362.5
25°	269.6
27.5°	182.8
30°	113.6
32.5°	75.4
35°	56.8
37.5°	45.4
40°	36.1
42.5°	28.9
45°	20.7
47.5°	9.3
50°	7.2
52.5°	6.2
55°	5.2
57.5°	4.1
60°	3.1
62.5°	3.1
65°	2.1
67.5°	2.1
70°	1.0
72.5°	1.0
75°	1.0
77.5°	1.0
80°	1.0
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)