

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: P886404

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2RDSL-550LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-84)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2RDSL-550LM-5000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 658.7 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.81
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

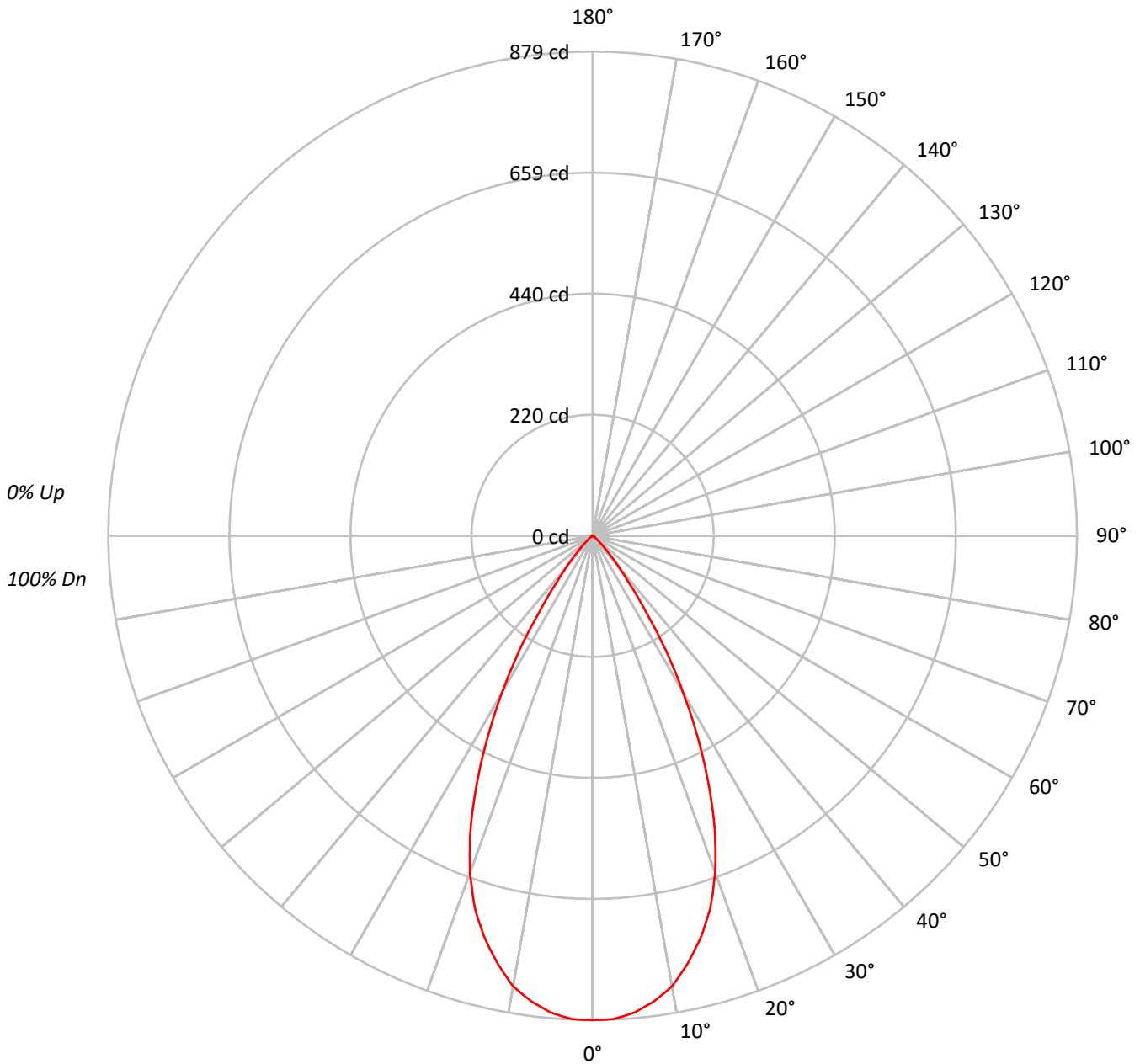
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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																			
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	103	97	93	89	102	96	92	88	93	90	87	91	88	86	89	86	84	83																			
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	84	81	79	78																			
5	94	86	81	77	92	85	80	76	83	79	76	82	78	75	80	77	74	73																			
6	90	81	76	72	88	80	75	71	79	74	71	78	74	70	76	73	70	69																			
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65																			
8	82	73	67	63	81	72	67	63	71	66	63	70	66	63	69	65	62	61																			
9	78	69	63	60	77	68	63	59	68	63	59	67	62	59	66	62	59	58																			
10	75	66	60	56	74	65	60	56	64	59	56	64	59	56	63	59	56	55																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	433878
5°	430335
10°	416123
15°	386255
20°	341541
25°	271267
30°	187262
35°	101428
40°	47145
45°	19467
50°	7138
55°	3011
60°	2270
65°	1401
70°	1731
75°	2288
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19467 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	12.4
10°-20°	210.2	31.9
20°-30°	224.8	34.1
30°-40°	111.2	16.9
40°-50°	24.9	3.8
50°-60°	3.8	0.6
60°-70°	1.3	0.2
70°-80°	0.8	0.1
80°-90°	0.0	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°	516.7	78.4
0°-40°	627.9	95.3
0°-60°	656.6	99.7
0°-90°	658.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	658.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	879	
5°	869	82
15°	756	210
25°	498	225
35°	168	111
45°	28	25
55°	4	4
65°	1	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	879.4
2.5°	878.2
5°	868.9
7.5°	852.6
10°	830.6
12.5°	795.7
15°	756.2
17.5°	709.8
20°	650.5
22.5°	579.7
25°	498.3
27.5°	413.5
30°	328.7
32.5°	248.6
35°	168.4
37.5°	110.4
40°	73.2
42.5°	46.5
45°	27.9
47.5°	16.3
50°	9.3
52.5°	5.8
55°	3.5
57.5°	2.3
60°	2.3
62.5°	1.2
65°	1.2
67.5°	1.2
70°	1.2
72.5°	1.2
75°	1.2
77.5°	0.0
80°	0.0
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)