

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: P886343

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2RDSL-550LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2RDSL-550LM-4000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 649.2 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 0.67 / 0.67 / 0.67
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

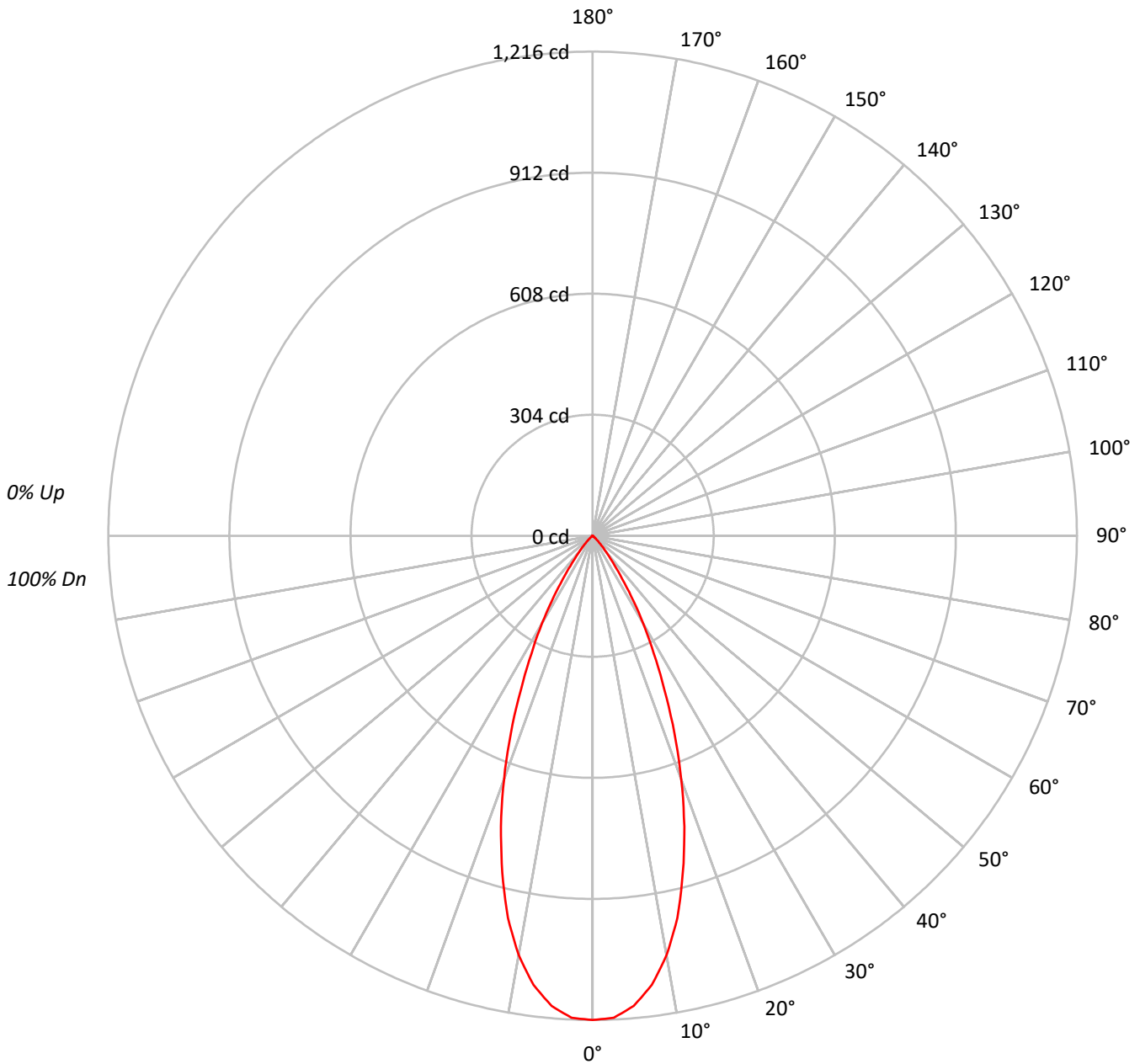
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
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	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	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95	95	94	93	91	90	90	88	86	85	85	80																
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90	90	88	86	85	85	80	80	77	76	76	72																
3	105	99	94	91	103	98	94	90	95	92	89	93	90	87	90	88	86	85	85	82	82	80	80	77	76	76	72	72	69																
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	87	84	82	80	80	77	76	76	72	72	69	69	65	65	61																
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76	76	72	72	69	69	65	65	61	61	59																	
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72	72	69	69	65	65	61	61	59	59	55																	
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	69	69	65	65	61	61	59	59	55	55	51																	
8	85	76	71	67	84	76	71	67	75	70	67	74	70	67	73	69	66	65	65	61	61	59	59	55	55	51	51	47																	
9	81	73	68	64	80	72	67	64	71	67	64	71	67	64	70	66	63	62	62	58	58	55	55	51	51	47	47	43																	
10	78	70	65	61	77	69	64	61	68	64	61	68	64	61	67	63	61	60	60	56	56	53	53	49	49	45	45	41																	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	599950
5°	586938
10°	535609
15°	447345
20°	341541
25°	231472
30°	144079
35°	71855
40°	33427
45°	12350
50°	5066
55°	2839
60°	2171
65°	1284
70°	1587
75°	2097
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12350 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	16.9
10°-20°	240.8	37.1
20°-30°	196.6	30.3
30°-40°	80.6	12.4
40°-50°	16.7	2.6
50°-60°	3.2	0.5
60°-70°	1.2	0.2
70°-80°	0.7	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°	546.8	84.2
0°-40°	627.4	96.6
0°-60°	647.3	99.7
0°-90°	649.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	649.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1216	
5°	1185	109
15°	876	241
25°	425	197
35°	119	81
45°	18	17
55°	3	3
65°	1	1
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1216.0
2.5°	1211.6
5°	1185.1
7.5°	1137.6
10°	1069.1
12.5°	983.0
15°	875.8
17.5°	765.4
20°	650.5
22.5°	536.8
25°	425.2
27.5°	332.4
30°	252.9
32.5°	180.0
35°	119.3
37.5°	77.3
40°	51.9
42.5°	32.0
45°	17.7
47.5°	9.9
50°	6.6
52.5°	4.4
55°	3.3
57.5°	2.2
60°	2.2
62.5°	1.1
65°	1.1
67.5°	1.1
70°	1.1
72.5°	1.1
75°	1.1
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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