

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: P886324

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2RDMB-550LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-79)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2RDMB-550LM-5000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

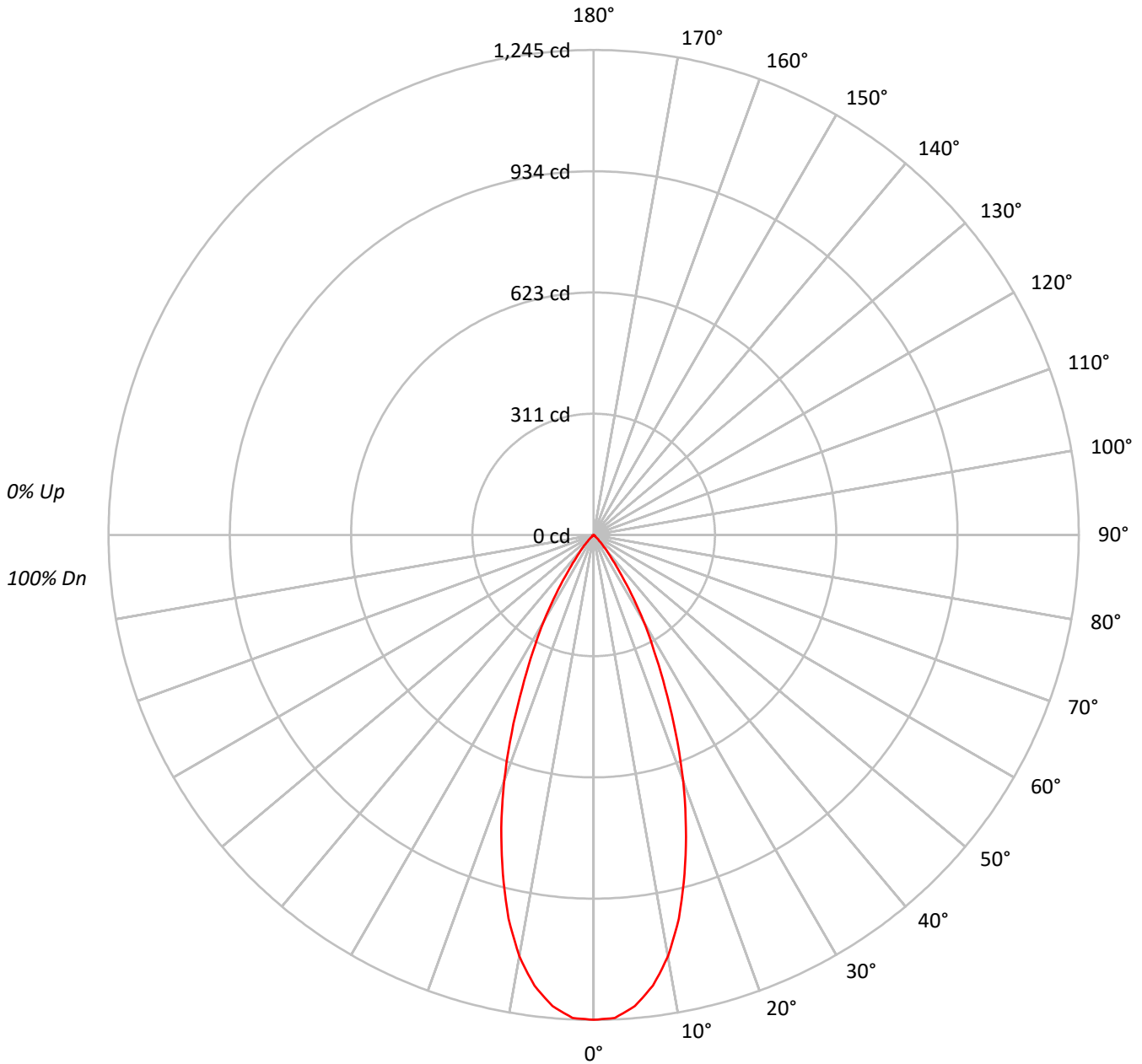
Lumens per Lamp: N/A
Luminaire Lumens: 654.5 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.67
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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	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	100	100	100	100		
	1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95	95	95		
	2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	92	90	90	90	90	90	90		
	3	105	99	95	92	103	98	94	91	95	92	89	93	90	88	91	89	87	85	85	85	85	85	85		
	4	101	94	89	86	99	93	88	85	91	87	84	89	86	83	87	84	82	81	81	81	81	81	81		
	5	96	89	84	80	95	88	84	80	87	82	79	85	81	79	83	80	78	77	77	77	77	77	77		
	6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73	73	73	73	73	73		
	7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69	69	69	69	69	69		
	8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66	66	66	66	66	66		
	9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63	63	63	63	63	63		
	10	79	70	65	62	78	70	65	62	69	65	62	68	64	62	68	64	61	60	60	60	60	60	60		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	614110
5°	601498
10°	550238
15°	460063
20°	352094
25°	235991
30°	145674
35°	69325
40°	30657
45°	9699
50°	2686
55°	1032
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9699 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	17.1
10°-20°	247.6	37.8
20°-30°	200.5	30.6
30°-40°	79.1	12.1
40°-50°	13.9	2.1
50°-60°	1.1	0.2
60°-70°	0.0	0.0
70°-80°	0.0	0.0
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°	560.3	85.6
0°-40°	639.4	97.7
0°-60°	654.5	100.0
0°-90°	654.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	654.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1245	
5°	1214	112
15°	901	248
25°	434	201
35°	115	79
45°	14	14
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1244.7
2.5°	1241.2
5°	1214.5
7.5°	1166.8
10°	1098.3
12.5°	1008.8
15°	900.7
17.5°	788.0
20°	670.6
22.5°	549.7
25°	433.5
27.5°	335.9
30°	255.7
32.5°	180.1
35°	115.1
37.5°	73.2
40°	47.6
42.5°	29.1
45°	13.9
47.5°	5.8
50°	3.5
52.5°	2.3
55°	1.2
57.5°	0.0
60°	0.0
62.5°	0.0
65°	0.0
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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)