

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: P886251

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMB-200LM-3000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/18/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2RDMB-200LM-3000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

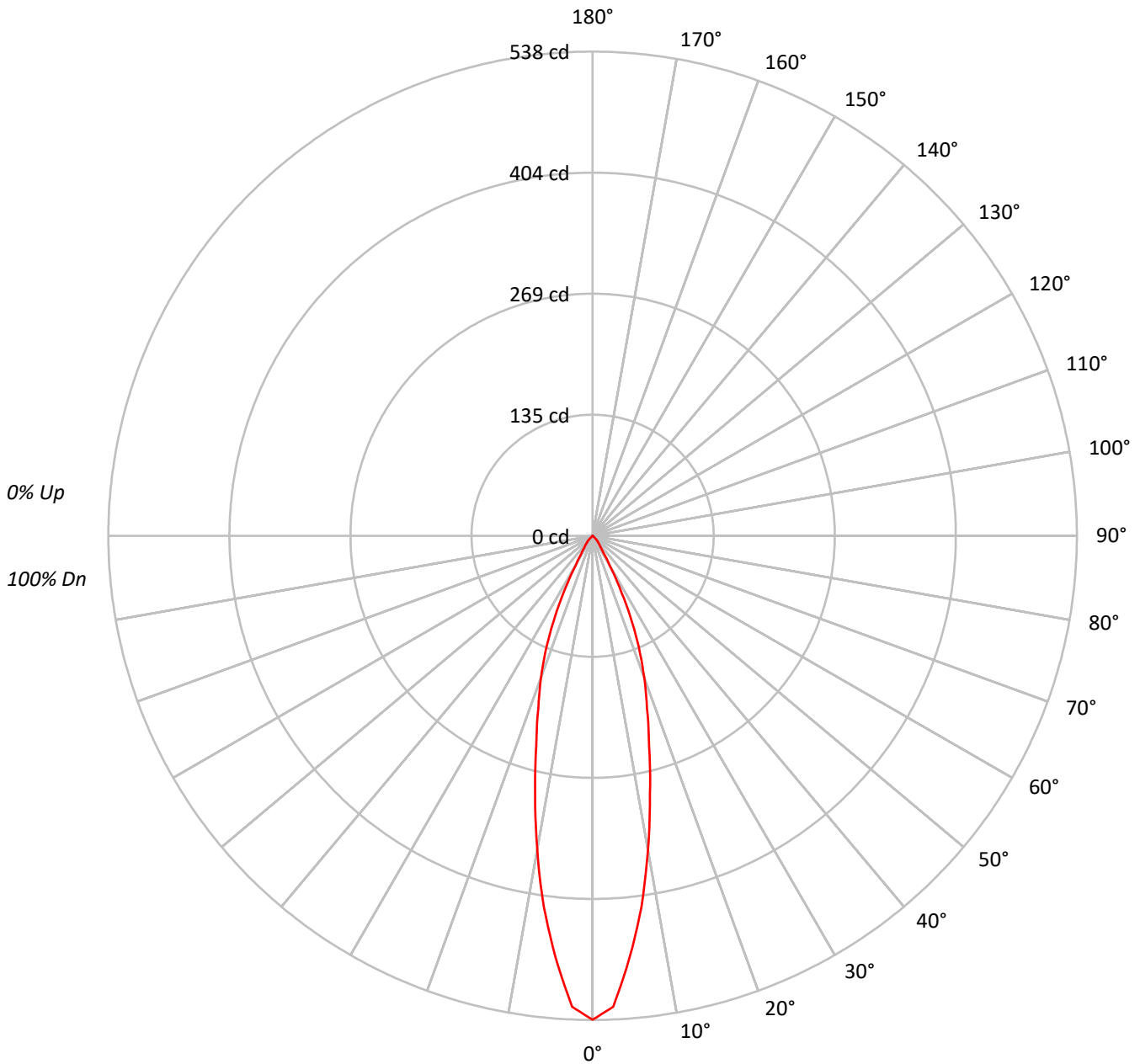
Lumens per Lamp: N/A
Luminaire Lumens: 169.0 lumens
Efficiency: N/A
Efficacy: 46.9 lumens/watt
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.52
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96																			
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91																			
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87																			
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84																			
5	98	92	87	84	97	91	87	83	89	86	83	88	85	82	86	84	81	80																			
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77																			
7	92	84	80	76	90	84	79	76	83	79	76	81	78	75	80	77	75	74																			
8	88	81	76	73	87	80	76	73	79	75	73	79	75	72	78	74	72	71																			
9	86	78	73	70	85	77	73	70	77	73	70	76	72	70	75	72	69	68																			
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	265290
5°	233022
10°	177451
15°	123712
20°	87892
25°	53840
30°	21421
35°	9697
40°	6247
45°	3210
50°	307
55°	344
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3210 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	24.5
10°-20°	68.1	40.3
20°-30°	44.4	26.3
30°-40°	11.5	6.8
40°-50°	3.4	2.0
50°-60°	0.2	0.1
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°	153.8	91.1
0°-40°	165.4	97.9
0°-60°	169.0	100.0
0°-90°	169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	169.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	538	
5°	470	41
15°	242	68
25°	99	44
35°	16	12
45°	5	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	537.7
2.5°	523.7
5°	470.5
7.5°	415.5
10°	354.2
12.5°	294.6
15°	242.2
17.5°	200.8
20°	167.4
22.5°	134.0
25°	98.9
27.5°	64.3
30°	37.6
32.5°	22.8
35°	16.1
37.5°	12.7
40°	9.7
42.5°	7.6
45°	4.6
47.5°	0.8
50°	0.4
52.5°	0.4
55°	0.4
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)