

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: P886065

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2RDDB-340LM-2700K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886065  
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: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMB-340LM-2700K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

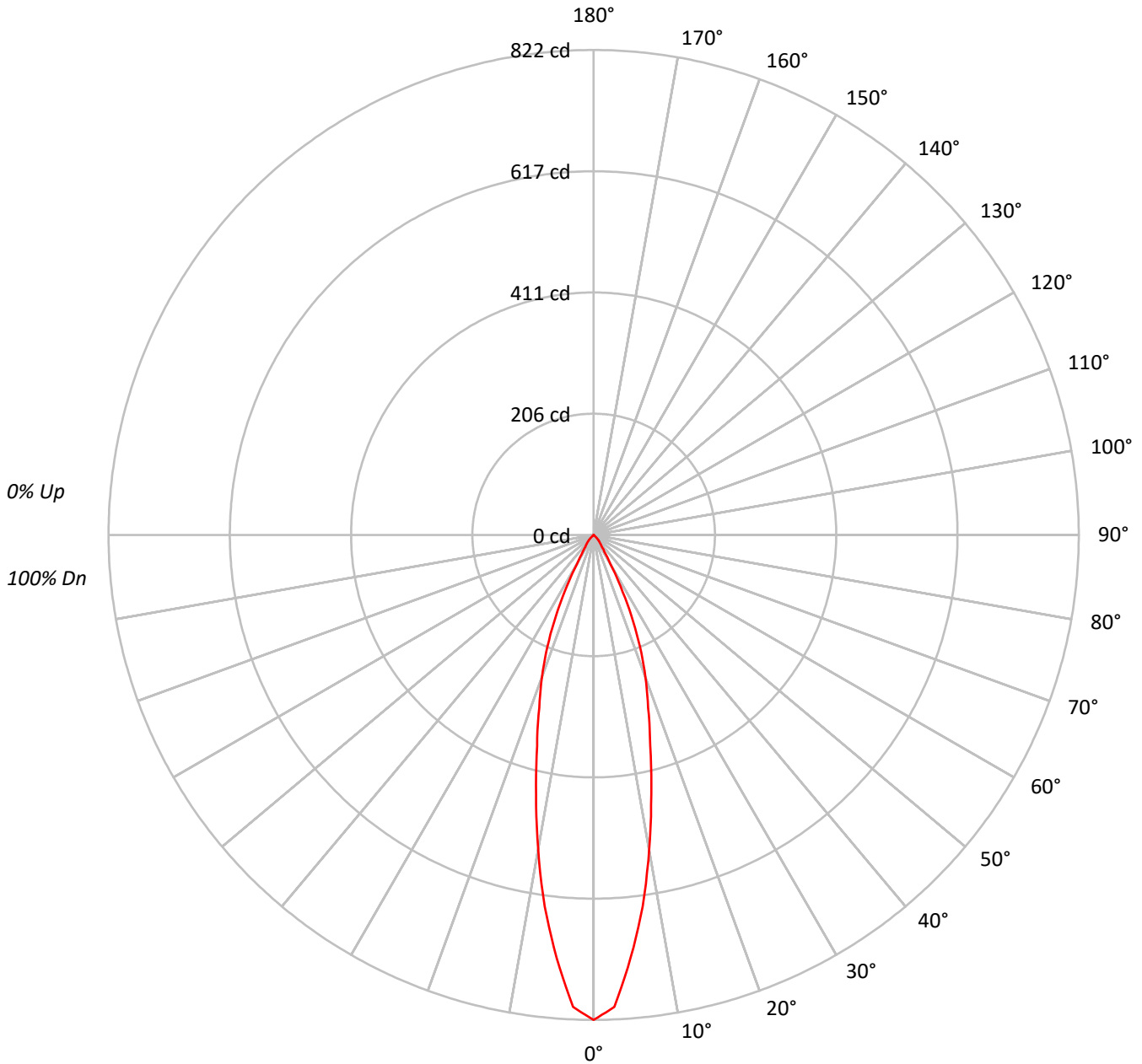
Lumens per Lamp: N/A  
Luminaire Lumens: 258.4 lumens  
Efficiency: N/A  
Efficacy: 41.7 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 6.2  
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



TEST NUMBER: P886065  
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMB-340LM-2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P886065

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDDB-340LM-2700K

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96	96	96	96
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91	91	91	91
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87	87	87	87
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84	84	84	84
5	98	92	87	84	97	91	87	83	89	86	83	88	85	82	86	84	81	80	80	80	80
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77	77	77	77
7	92	84	80	76	90	84	79	76	83	79	76	81	78	75	80	77	75	74	74	74	74
8	88	81	76	73	87	80	76	73	79	75	73	79	75	72	78	74	72	71	71	71	71
9	86	78	73	70	85	77	73	70	77	73	70	76	72	70	75	72	69	68	68	68	68
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66	66	66	66

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	405607
5°	356293
10°	271337
15°	189194
20°	134359
25°	82311
30°	32758
35°	14817
40°	9597
45°	4954
50°	461
55°	516
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4954 cd/sqm



TEST NUMBER: P886065

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMB-340LM-2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.2	24.5
10°-20°	104.1	40.3
20°-30°	67.9	26.3
30°-40°	17.6	6.8
40°-50°	5.2	2.0
50°-60°	0.3	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°	235.2	91.0
0°-40°	252.8	97.9
0°-60°	258.4	100.0
0°-90°	258.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	258.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	822	
5°	719	63
15°	370	104
25°	151	68
35°	25	18
45°	7	5
55°	1	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P886065

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMB-340LM-2700K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	822.1
2.5°	800.8
5°	719.4
7.5°	635.3
10°	541.6
12.5°	450.5
15°	370.4
17.5°	307.0
20°	255.9
22.5°	204.9
25°	151.2
27.5°	98.2
30°	57.5
32.5°	34.9
35°	24.6
37.5°	19.4
40°	14.9
42.5°	11.6
45°	7.1
47.5°	1.3
50°	0.6
52.5°	0.6
55°	0.6
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

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)