

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: P886078

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMBB-468LM-4000K

Issue Date: 7/18/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886078  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-76)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 7/18/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMMB-468LM-4000K  
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

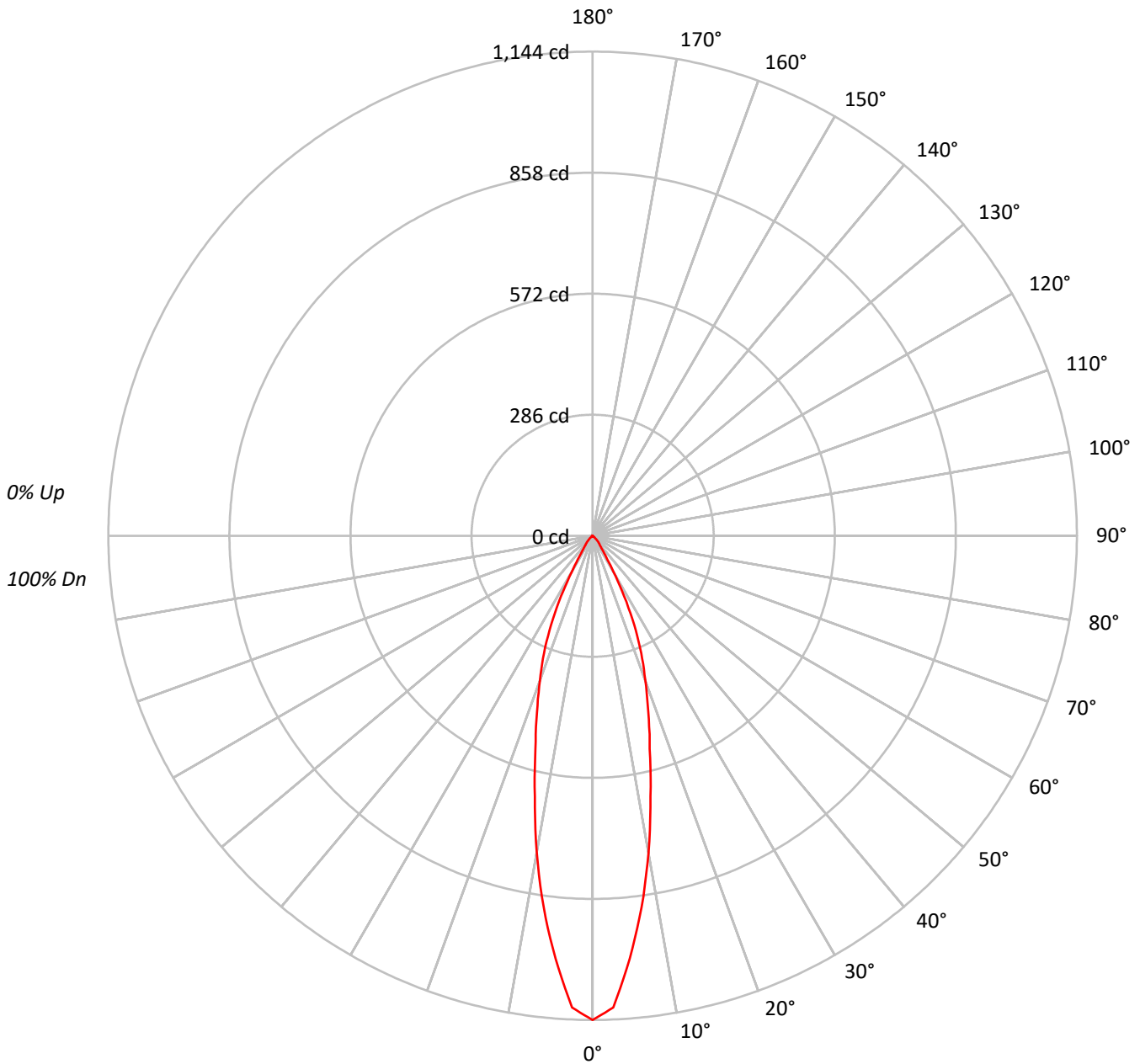
Lumens per Lamp: N/A  
Luminaire Lumens: 376.3 lumens  
Efficiency: N/A  
Efficacy: 47.0 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.53  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
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: P886078  
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMMB-468LM-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P886078

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMMB-468LM-4000K

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

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

	0°
0°	564525
5°	496948
10°	380603
15°	266425
20°	190696
25°	126569
30°	55432
35°	22888
40°	14942
45°	9071
50°	1458
55°	774
60°	0
65°	0
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9071 cd/sqm



TEST NUMBER: P886078

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMBB-468LM-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	23.5
10°-20°	146.7	39.0
20°-30°	103.3	27.4
30°-40°	28.3	7.5
40°-50°	9.2	2.4
50°-60°	0.6	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°	338.2	89.9
0°-40°	366.5	97.4
0°-60°	376.3	100.0
0°-90°	376.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	376.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1144	
5°	1003	88
15°	522	147
25°	232	103
35°	38	28
45°	13	9
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P886078  
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMBB-468LM-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1144.2
2.5°	1115.5
5°	1003.4
7.5°	885.7
10°	759.7
12.5°	630.9
15°	521.6
17.5°	436.4
20°	363.2
22.5°	300.2
25°	232.5
27.5°	161.2
30°	97.3
32.5°	58.4
35°	38.0
37.5°	28.7
40°	23.2
42.5°	18.5
45°	13.0
47.5°	4.6
50°	1.9
52.5°	0.9
55°	0.9
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)