

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: P886073

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2RDDB-468LM-4000K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886073
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-468LM-4000K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 370.3 lumens
Efficiency: N/A
Efficacy: 46.3 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

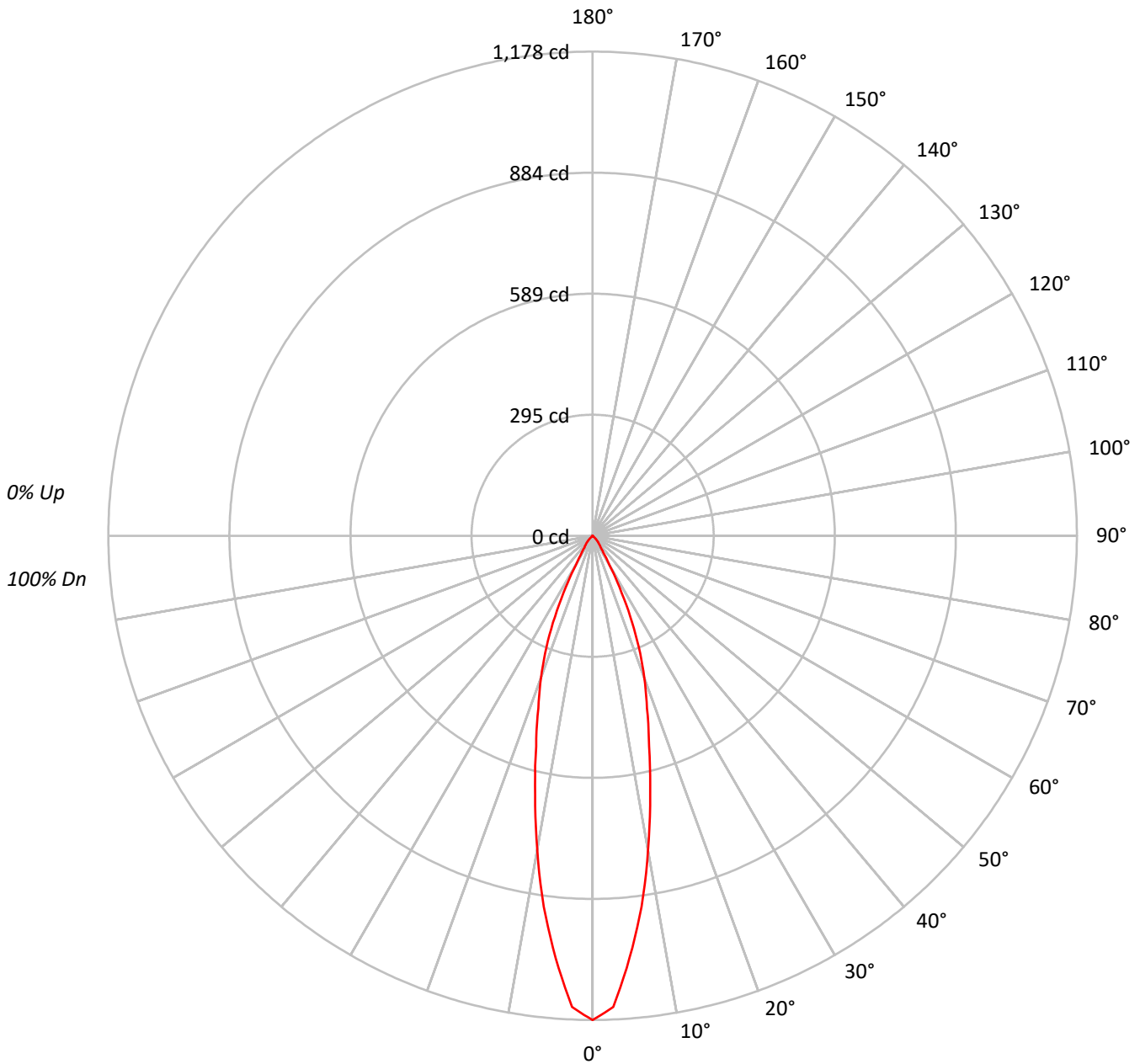
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886073

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMB-468LM-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P886073
 CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMB-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				100															
1	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96				96															
2	110	106	103	100	108	105	102	99	101	99	97	99	97	95	96	94	93	91				91															
3	106	101	97	94	104	100	96	93	97	94	92	95	92	90	93	91	89	87				87															
4	102	96	92	88	101	95	91	88	93	90	87	91	88	86	89	87	85	84				84															
5	98	92	87	84	97	91	87	83	89	86	83	88	85	82	86	84	81	80				80															
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77				77															
7	92	84	80	76	90	84	79	76	83	79	76	81	78	75	80	77	75	74				74															
8	88	81	76	73	87	80	76	73	79	75	73	79	75	72	78	74	72	71				71															
9	86	78	73	70	85	77	73	70	77	73	70	76	72	70	75	72	69	68				68															
10	83	75	70	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66				66															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	581349
5°	510617
10°	388919
15°	271124
20°	192586
25°	118022
30°	46944
35°	21201
40°	13719
45°	7117
50°	691
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: 7117 cd/sqm



TEST NUMBER: P886073

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMB-468LM-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	24.5
10°-20°	149.1	40.3
20°-30°	97.4	26.3
30°-40°	25.2	6.8
40°-50°	7.5	2.0
50°-60°	0.5	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°	337.2	91.0
0°-40°	362.4	97.8
0°-60°	370.3	100.0
0°-90°	370.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	370.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1178	
5°	1031	91
15°	531	149
25°	217	97
35°	35	25
45°	10	7
55°	1	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P886073
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMB-468LM-4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1178.3
2.5°	1147.8
5°	1031.0
7.5°	910.6
10°	776.3
12.5°	645.7
15°	530.8
17.5°	440.0
20°	366.8
22.5°	293.7
25°	216.8
27.5°	140.8
30°	82.4
32.5°	50.0
35°	35.2
37.5°	27.8
40°	21.3
42.5°	16.7
45°	10.2
47.5°	1.9
50°	0.9
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)