

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: P886062

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2RDDB-170LM-3500K

Issue Date: 7/18/2024

Test Information

Test Method: LM-79-2019
Report Number: P886062
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-170LM-3500K
Description: 2IN ROUND ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 141.1 lumens
Efficiency: N/A
Efficacy: 39.2 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

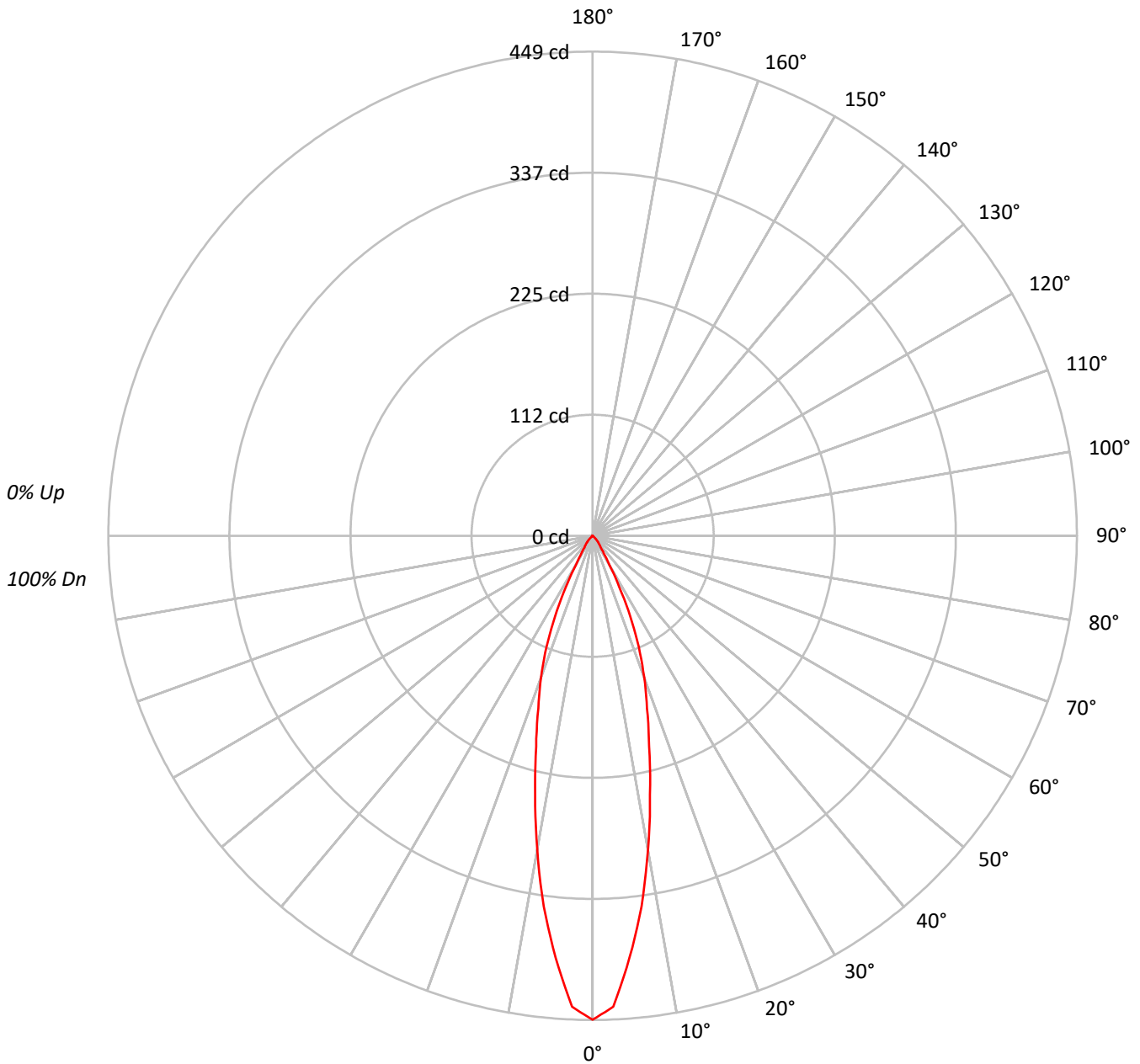
Input Watts (W): 3.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886062

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDDB-170LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P886062

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDDB-170LM-3500K

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	91	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	84	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	79	76	90	84	79	76	82	78	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°	221429
5°	194490
10°	148093
15°	103281
20°	73349
25°	44966
30°	17889
35°	8071
40°	5217
45°	2721
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: 2721 cd/sqm



TEST NUMBER: P886062

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMB-170LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	24.5
10°-20°	56.8	40.3
20°-30°	37.1	26.3
30°-40°	9.6	6.8
40°-50°	2.9	2.0
50°-60°	0.2	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°	128.4	91.0
0°-40°	138.0	97.8
0°-60°	141.1	100.0
0°-90°	141.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	141.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	449	
5°	393	35
15°	202	57
25°	83	37
35°	13	10
45°	4	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P886062
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMB-170LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	448.8
2.5°	437.1
5°	392.7
7.5°	346.8
10°	295.6
12.5°	245.9
15°	202.2
17.5°	167.6
20°	139.7
22.5°	111.8
25°	82.6
27.5°	53.6
30°	31.4
32.5°	19.1
35°	13.4
37.5°	10.6
40°	8.1
42.5°	6.4
45°	3.9
47.5°	0.7
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

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)