

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: P886063

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2RDDB-170LM-4000K

Issue Date: 7/18/2024

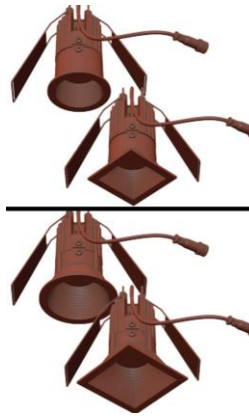
**Test Information**

Test Method: LM-79-2019  
Report Number: P886063  
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-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**

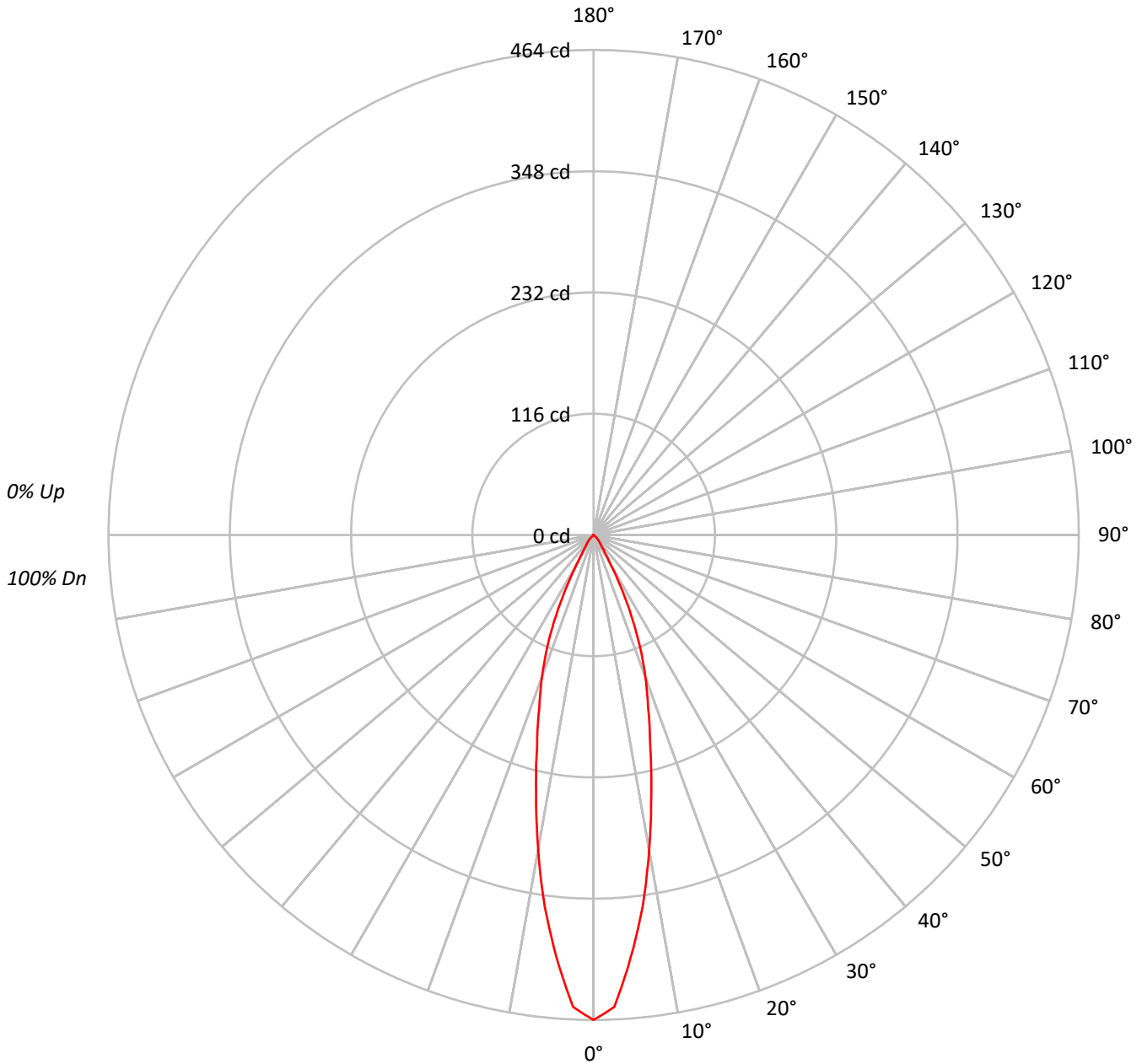
Lumens per Lamp: N/A  
Luminaire Lumens: 145.9 lumens  
Efficiency: N/A  
Efficacy: 40.5 lumens/watt  
Spacing Criteria (0/90/45): 0.45 / 0.45 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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: P886063  
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDDB-170LM-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P886063

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMB-170LM-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	84	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	79	76	90	84	79	76	82	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°	228977
5°	201127
10°	153153
15°	106805
20°	75869
25°	46490
30°	18515
35°	8372
40°	5410
45°	2791
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: 2791 cd/sqm



TEST NUMBER: P886063

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMB-170LM-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.7	24.5
10°-20°	58.7	40.3
20°-30°	38.4	26.3
30°-40°	9.9	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°	132.8	91.0
0°-40°	142.7	97.8
0°-60°	145.9	100.0
0°-90°	145.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	145.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	464	
5°	406	36
15°	209	59
25°	85	38
35°	14	10
45°	4	3
55°	0	0
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P886063  
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2RDMB-170LM-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	464.1
2.5°	452.1
5°	406.1
7.5°	358.6
10°	305.7
12.5°	254.3
15°	209.1
17.5°	173.3
20°	144.5
22.5°	115.7
25°	85.4
27.5°	55.5
30°	32.5
32.5°	19.7
35°	13.9
37.5°	10.9
40°	8.4
42.5°	6.6
45°	4.0
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)