

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: P886176

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-3000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-98)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-3000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

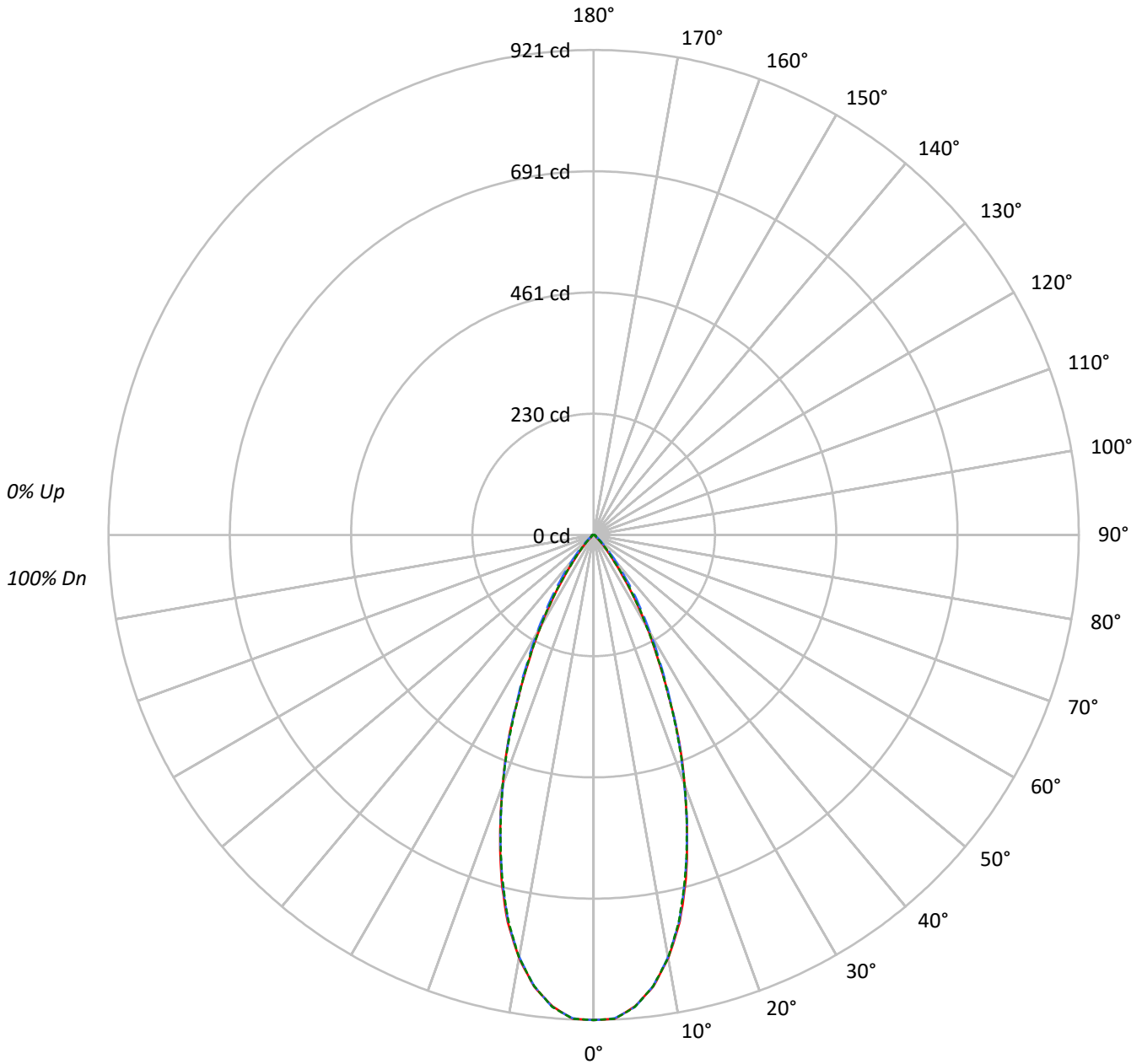
Lumens per Lamp: N/A  
Luminaire Lumens: 529.3 lumens  
Efficiency: N/A  
Efficacy: 66.2 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.69  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

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: P886176  
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P886176

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-3000K

**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	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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88					88			
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83					83			
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78					78			
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74					74			
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70					70			
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66					66			
8	83	74	69	65	82	74	69	65	73	68	65	72	68	64	71	67	64	63					63			
9	80	71	65	62	79	70	65	62	69	65	61	69	64	61	68	64	61	60					60			
10	76	68	62	59	75	67	62	59	66	62	59	66	61	58	65	61	58	57					57			

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

	0°	45°	90°
0°	89261	89261	89261
5°	87404	87492	87492
10°	80240	80073	80152
15°	67828	67397	67307
20°	51959	51866	52041
25°	35819	36375	35733
30°	22764	24028	22473
35°	11779	14641	12181
40°	5476	8106	5691
45°	2493	3918	2617
50°	1176	2095	1311
55°	878	1165	878
60°	833	833	833
65°	802	802	802
70°	736	991	736
75°	973	973	973
80°	948	948	948
85°	1000	1000	1000

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 3918 cd/sqm



TEST NUMBER: P886176

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.2	15.7
10°-20°	184.9	34.9
20°-30°	156.2	29.5
30°-40°	72.8	13.7
40°-50°	19.7	3.7
50°-60°	5.7	1.1
60°-70°	3.7	0.7
70°-80°	2.5	0.5
80°-90°	0.7	0.1
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°	424.2	80.2
0°-40°	497.0	93.9
0°-60°	522.3	98.7
0°-90°	529.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	529.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	899	901	900	900	900	83
15°	676	675	672	671	671	185
25°	335	341	340	341	334	155
35°	100	112	124	113	103	66
45°	18	22	29	22	19	16
55°	5	6	7	6	5	5
65°	4	4	4	4	4	4
75°	3	3	3	3	3	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P886176

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	921.4	921.4	921.4	921.4	921.4
2.5°	919.6	918.8	918.8	918.8	919.6
5°	898.8	900.6	899.7	899.7	899.7
7.5°	865.1	864.2	864.2	864.2	864.2
10°	815.7	814.8	814.0	817.4	814.8
12.5°	753.4	753.4	750.8	751.6	749.0
15°	676.3	674.6	672.0	671.1	671.1
17.5°	589.7	589.7	589.7	586.2	588.0
20°	504.0	506.6	503.1	506.6	504.8
22.5°	424.3	421.7	421.7	420.0	419.1
25°	335.1	341.2	340.3	341.2	334.3
27.5°	261.5	266.7	272.8	269.3	264.1
30°	203.5	206.1	214.8	207.8	200.9
32.5°	147.2	156.7	165.4	158.5	150.7
35°	99.6	111.7	123.8	113.4	103.0
37.5°	64.9	74.5	88.3	76.2	66.7
40°	43.3	47.6	64.1	49.4	45.0
42.5°	29.4	33.8	44.2	33.8	31.2
45°	18.2	22.5	28.6	22.5	19.1
47.5°	9.5	13.9	20.8	13.9	11.3
50°	7.8	8.7	13.9	8.7	8.7
52.5°	6.1	6.9	8.7	6.9	6.9
55°	5.2	6.1	6.9	6.1	5.2
57.5°	4.3	5.2	5.2	5.2	4.3
60°	4.3	4.3	4.3	4.3	4.3
62.5°	4.3	4.3	4.3	4.3	4.3
65°	3.5	3.5	3.5	3.5	3.5
67.5°	3.5	3.5	3.5	3.5	3.5
70°	2.6	3.5	3.5	3.5	2.6
72.5°	2.6	2.6	2.6	2.6	2.6
75°	2.6	2.6	2.6	2.6	2.6
77.5°	1.7	1.7	1.7	1.7	1.7
80°	1.7	1.7	1.7	1.7	1.7
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	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







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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)