

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: P886177

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886177
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-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

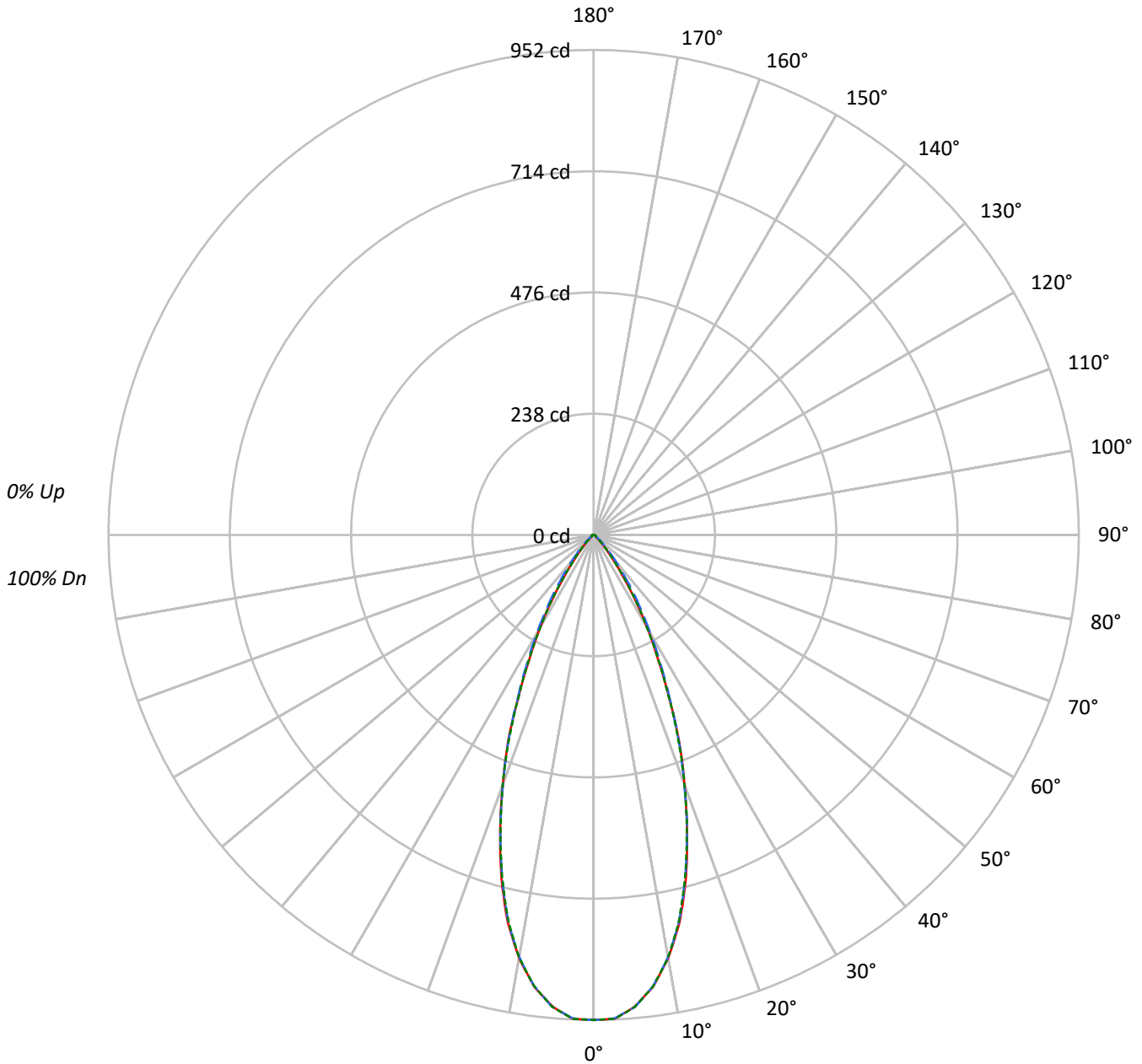
Lumens per Lamp: N/A
Luminaire Lumens: 547.1 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.69
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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: P886177
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P886177

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-3500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	92254	92254	92254
5°	90351	90438	90438
10°	82936	82759	82847
15°	70105	69663	69573
20°	53701	53608	53794
25°	37027	37604	36931
30°	23525	24833	23234
35°	12169	15138	12595
40°	5665	8372	5880
45°	2576	4042	2699
50°	1221	2155	1356
55°	912	1216	912
60°	872	872	872
65°	825	825	825
70°	765	1020	765
75°	1011	1011	1011
80°	1004	1004	1004
85°	1000	1000	1000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 4042 cd/sqm



TEST NUMBER: P886177

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	15.7
10°-20°	191.1	34.9
20°-30°	161.4	29.5
30°-40°	75.2	13.7
40°-50°	20.3	3.7
50°-60°	5.9	1.1
60°-70°	3.9	0.7
70°-80°	2.6	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°	438.5	80.2
0°-40°	513.7	93.9
0°-60°	539.9	98.7
0°-90°	547.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	547.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	952	952	952	952	952	
5°	929	931	930	930	930	86
15°	699	697	695	694	694	192
25°	346	353	352	353	346	160
35°	103	116	128	117	106	69
45°	19	23	30	23	20	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: P886177

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D40FL-TL2SDMWB-468LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	952.3	952.3	952.3	952.3	952.3
2.5°	950.5	949.6	949.6	949.6	950.5
5°	929.1	930.9	930.0	930.0	930.0
7.5°	894.2	893.3	893.3	893.3	893.3
10°	843.1	842.2	841.3	844.9	842.2
12.5°	778.7	778.7	776.0	776.9	774.2
15°	699.0	697.2	694.6	693.7	693.7
17.5°	609.5	609.5	609.5	605.9	607.7
20°	520.9	523.6	520.0	523.6	521.8
22.5°	438.6	435.9	435.9	434.1	433.2
25°	346.4	352.6	351.8	352.6	345.5
27.5°	270.3	275.7	281.9	278.4	273.0
30°	210.3	213.0	222.0	214.8	207.7
32.5°	152.2	162.0	171.0	163.8	155.7
35°	102.9	115.5	128.0	117.3	106.5
37.5°	67.1	77.0	91.3	78.8	68.9
40°	44.8	49.2	66.2	51.0	46.5
42.5°	30.4	34.9	45.6	34.9	32.2
45°	18.8	23.3	29.5	23.3	19.7
47.5°	9.8	14.3	21.5	14.3	11.6
50°	8.1	9.0	14.3	9.0	9.0
52.5°	6.3	7.2	9.0	7.2	7.2
55°	5.4	6.3	7.2	6.3	5.4
57.5°	4.5	5.4	5.4	5.4	4.5
60°	4.5	4.5	4.5	4.5	4.5
62.5°	4.5	4.5	4.5	4.5	4.5
65°	3.6	3.6	3.6	3.6	3.6
67.5°	3.6	3.6	3.6	3.6	3.6
70°	2.7	3.6	3.6	3.6	2.7
72.5°	2.7	2.7	2.7	2.7	2.7
75°	2.7	2.7	2.7	2.7	2.7
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8
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)