

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: P886123

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSL-468LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-90)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSL-468LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 4000K CCT
Ballast/Driver: -

Summary

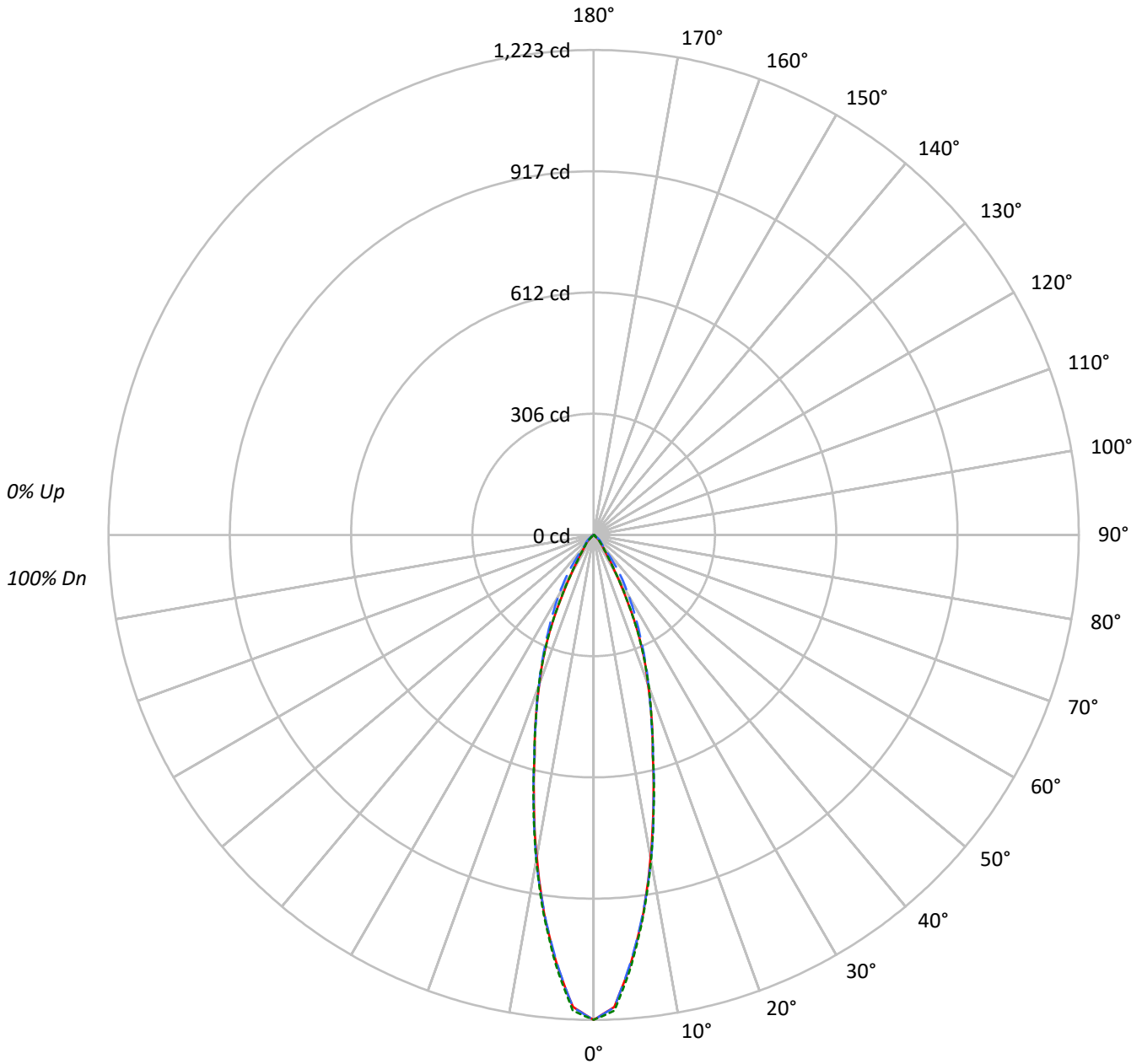
Lumens per Lamp: N/A
Luminaire Lumens: 441.8 lumens
Efficiency: N/A
Efficacy: 55.2 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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: P886123
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSL-468LM-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P886123

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSL-468LM-4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95					95			
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90					90			
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86					86			
4	101	94	90	86	99	93	89	85	91	87	84	89	86	84	87	85	83	81					81			
5	97	90	85	81	95	89	84	81	87	83	80	85	82	79	84	81	79	77					77			
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	77	75	74					74			
7	89	82	76	73	88	81	76	73	80	75	72	79	75	72	78	74	72	70					70			
8	86	78	73	69	85	77	73	69	76	72	69	76	72	69	75	71	68	67					67			
9	83	75	70	66	82	74	70	66	73	69	66	73	69	66	72	68	66	65					65			
10	80	72	67	64	79	71	67	63	71	66	63	70	66	63	69	66	63	62					62			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	473834	473834	473834
5°	420915	419826	423793
10°	324894	327452	327806
15°	230592	231715	231715
20°	164906	166432	167586
25°	107232	116766	106462
30°	49711	78258	49711
35°	23227	46832	23652
40°	15428	18261	14973
45°	8111	14193	8604
50°	2773	10610	2773
55°	1892	2500	1892
60°	1472	1472	1472
65°	825	825	825
70°	1020	1020	1020
75°	1347	0	1347
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14193 cd/sqm



TEST NUMBER: P886123

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSL-468LM-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	21.6
10°-20°	161.8	36.6
20°-30°	119.4	27.0
30°-40°	45.2	10.2
40°-50°	14.9	3.4
50°-60°	3.4	0.8
60°-70°	1.1	0.2
70°-80°	0.5	0.1
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°	376.7	85.3
0°-40°	421.9	95.5
0°-60°	440.2	99.6
0°-90°	441.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	441.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1082	1079	1079	1084	1090	95
15°	575	575	578	577	578	162
25°	251	266	273	264	249	112
35°	49	61	99	62	50	35
45°	15	19	26	19	16	12
55°	3	3	4	3	3	3
65°	1	1	1	1	1	1
75°	1	1	0	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P886123

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSL-468LM-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1222.8	1222.8	1222.8	1222.8	1222.8
2.5°	1191.3	1191.3	1192.2	1195.0	1200.6
5°	1082.1	1079.3	1079.3	1083.9	1089.5
7.5°	959.9	959.0	958.0	958.0	964.5
10°	825.7	830.3	832.2	823.8	833.1
12.5°	695.2	687.8	697.9	692.4	699.8
15°	574.8	574.8	577.6	576.7	577.6
17.5°	485.0	486.0	481.3	483.2	482.3
20°	399.9	402.7	403.6	404.5	406.4
22.5°	328.6	332.3	335.1	333.2	325.8
25°	250.8	265.7	273.1	263.8	249.0
27.5°	168.5	196.2	222.2	199.0	174.0
30°	111.1	135.1	174.9	134.2	111.1
32.5°	72.2	88.9	137.0	87.9	71.3
35°	49.1	61.1	99.0	62.0	50.0
37.5°	38.0	43.5	59.2	43.5	38.0
40°	30.5	31.5	36.1	32.4	29.6
42.5°	24.1	25.0	29.6	25.0	23.1
45°	14.8	19.4	25.9	19.4	15.7
47.5°	6.5	11.1	21.3	11.1	6.5
50°	4.6	4.6	17.6	4.6	4.6
52.5°	3.7	3.7	11.1	3.7	3.7
55°	2.8	2.8	3.7	2.8	2.8
57.5°	2.8	1.9	1.9	1.9	2.8
60°	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	0.9	0.9	0.9	1.9
65°	0.9	0.9	0.9	0.9	0.9
67.5°	0.9	0.9	0.9	0.9	0.9
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.9	0.0	0.9	0.9
75°	0.9	0.9	0.0	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)