

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: P886249

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSLB-468LM-5000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886249  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-105)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSLB-468LM-5000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

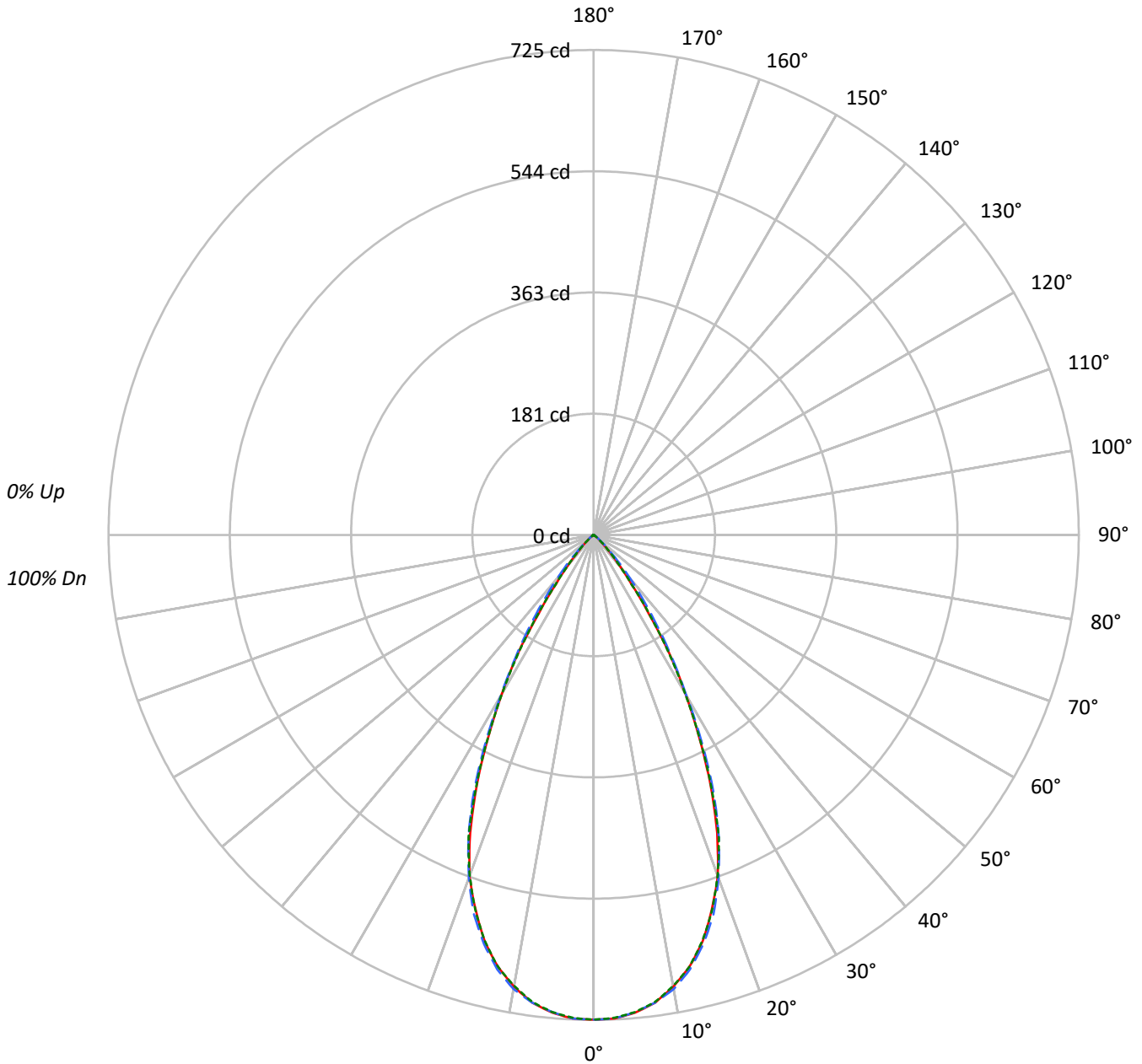
Lumens per Lamp: N/A  
Luminaire Lumens: 558.7 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.86 / 0.82  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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: P886249  
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSLB-468LM-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P886249

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSLB-468LM-5000K

**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	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	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	82
4	98	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	60
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57
10	74	65	59	56	73	65	59	56	64	59	56	63	59	55	62	58	55	54

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

	0°	45°	90°
0°	280782	280782	280782
5°	278821	278432	278432
10°	269768	271303	269374
15°	252375	253940	252014
20°	223710	224906	223297
25°	176966	181114	177821
30°	122466	124211	122018
35°	67741	77864	69113
40°	30553	42390	31059
45°	12823	17098	13317
50°	5305	6450	5305
55°	1959	2635	1959
60°	775	775	775
65°	917	917	917
70°	1133	0	1133
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 17098 cd/sqm



TEST NUMBER: P886249

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSLB-468LM-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.5	12.1
10°-20°	175.0	31.3
20°-30°	188.7	33.8
30°-40°	99.3	17.8
40°-50°	23.7	4.2
50°-60°	3.5	0.6
60°-70°	0.9	0.2
70°-80°	0.1	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°	431.1	77.2
0°-40°	530.4	94.9
0°-60°	557.7	99.8
0°-90°	558.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	558.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	717	717	716	716	716	67
15°	629	629	633	629	628	174
25°	414	418	424	419	416	187
35°	143	157	165	156	146	94
45°	23	25	31	25	24	21
55°	3	3	4	3	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P886249

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSLB-468LM-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	724.6	724.6	724.6	724.6	724.6
2.5°	723.6	723.6	723.6	722.6	722.6
5°	716.8	716.8	715.8	715.8	715.8
7.5°	705.1	706.1	705.1	704.1	704.1
10°	685.6	687.6	689.5	688.5	684.6
12.5°	661.3	661.3	665.2	661.3	661.3
15°	629.1	629.1	633.0	629.1	628.2
17.5°	587.3	590.2	595.0	590.2	588.2
20°	542.5	542.5	545.4	545.4	541.5
22.5°	482.1	486.0	488.9	487.9	488.9
25°	413.9	417.8	423.6	418.8	415.9
27.5°	340.9	344.8	349.6	348.7	342.8
30°	273.7	278.5	277.6	276.6	272.7
32.5°	212.3	216.2	217.2	215.2	209.4
35°	143.2	156.8	164.6	155.8	146.1
37.5°	92.5	104.2	119.8	105.2	93.5
40°	60.4	64.3	83.8	68.2	61.4
42.5°	38.0	41.9	55.5	41.9	39.0
45°	23.4	25.3	31.2	25.3	24.3
47.5°	13.6	14.6	18.5	14.6	14.6
50°	8.8	8.8	10.7	8.8	8.8
52.5°	4.9	5.8	6.8	5.8	5.8
55°	2.9	2.9	3.9	2.9	2.9
57.5°	1.9	1.9	1.9	1.9	1.9
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	1.0	0.0	0.0	0.0	1.0
72.5°	1.0	0.0	0.0	0.0	1.0
75°	0.0	0.0	0.0	0.0	0.0
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)