

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: P886242

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSL-468LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-102)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSL-468LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, METALLIC SILVER TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 517.0 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

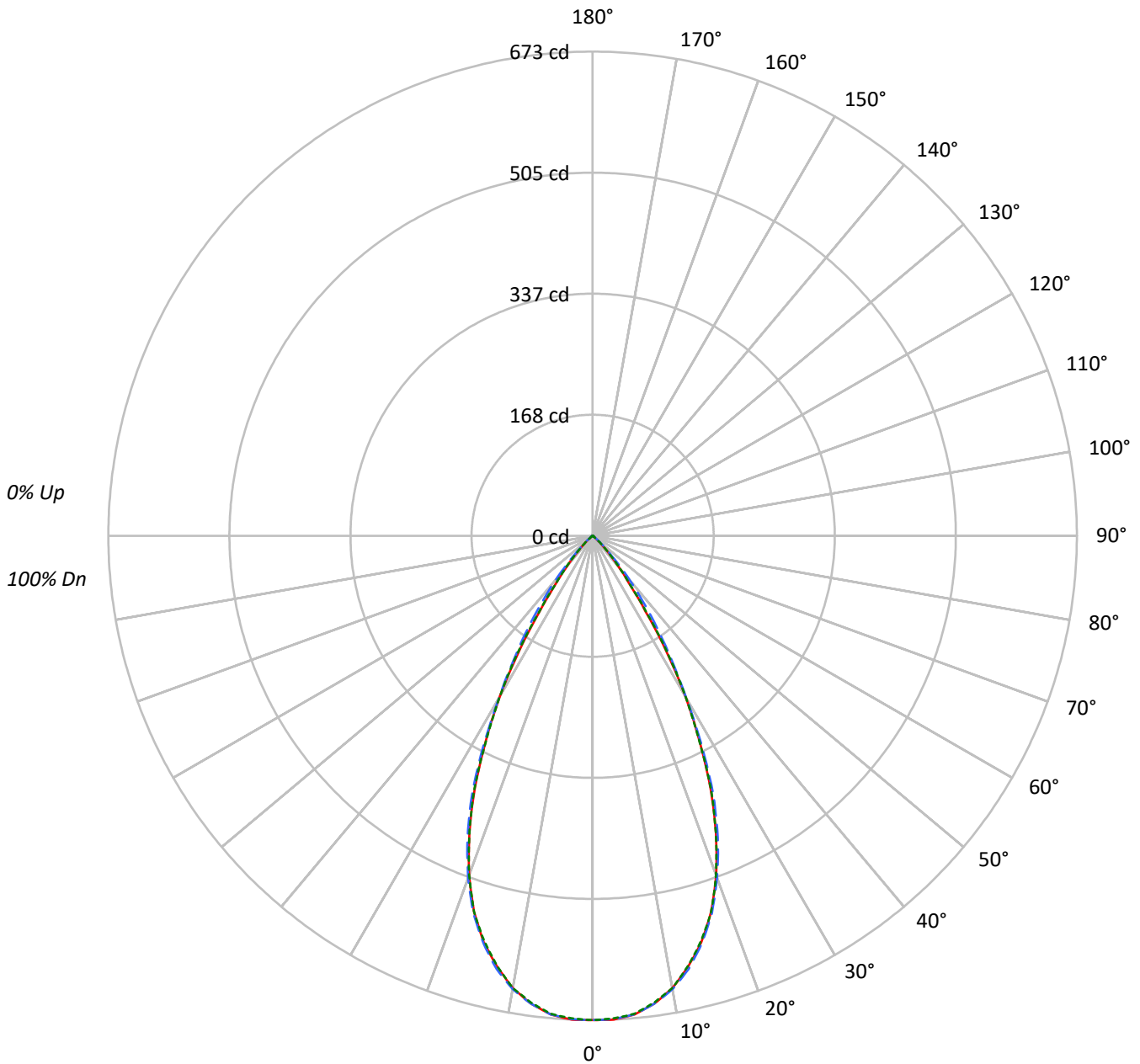
Input Watts (W): 8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P886242

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSL-468LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P886242

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSL-468LM-3500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	260865	260865	260865
5°	259799	259799	259449
10°	251156	251865	251156
15°	234523	235245	233801
20°	207091	208576	206761
25°	165764	169570	166491
30°	115352	116157	115352
35°	60550	73701	62253
40°	28530	40316	28985
45°	11289	14741	11289
50°	3798	4883	3798
55°	1216	2432	1216
60°	697	697	697
65°	825	0	825
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14741 cd/sqm



TEST NUMBER: P886242

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSL-468LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	12.1
10°-20°	162.4	31.4
20°-30°	175.8	34.0
30°-40°	91.7	17.7
40°-50°	21.1	4.1
50°-60°	2.7	0.5
60°-70°	0.6	0.1
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°	401.0	77.6
0°-40°	492.7	95.3
0°-60°	516.5	99.9
0°-90°	517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	673	673	673	673	673	
5°	668	667	668	667	667	63
15°	585	585	586	585	583	162
25°	388	391	397	390	389	174
35°	128	144	156	145	132	85
45°	21	22	27	22	21	19
55°	2	3	4	3	2	2
65°	1	1	0	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: P886242

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDSL-468LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	673.2	673.2	673.2	673.2	673.2
2.5°	673.2	673.2	672.4	673.2	671.5
5°	667.9	667.0	667.9	667.0	667.0
7.5°	656.2	656.2	656.2	655.3	654.4
10°	638.3	639.2	640.1	639.2	638.3
12.5°	613.3	613.3	616.8	612.4	612.4
15°	584.6	584.6	586.4	584.6	582.8
17.5°	547.9	548.8	550.6	547.0	547.9
20°	502.2	503.1	505.8	504.0	501.4
22.5°	447.6	451.2	454.8	455.7	447.6
25°	387.7	391.2	396.6	390.3	389.4
27.5°	321.4	322.3	327.7	324.1	319.6
30°	257.8	257.8	259.6	256.9	257.8
32.5°	190.7	201.4	203.2	201.4	195.2
35°	128.0	144.1	155.8	145.0	131.6
37.5°	82.4	92.2	112.8	93.1	83.3
40°	56.4	59.1	79.7	59.1	57.3
42.5°	35.8	38.5	48.3	38.5	35.8
45°	20.6	22.4	26.9	22.4	20.6
47.5°	11.6	12.5	15.2	12.5	12.5
50°	6.3	7.2	8.1	7.2	6.3
52.5°	3.6	4.5	5.4	4.5	3.6
55°	1.8	2.7	3.6	2.7	1.8
57.5°	0.9	0.9	1.8	0.9	0.9
60°	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.0	0.9	0.9
67.5°	0.0	0.9	0.0	0.0	0.9
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
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)