

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: P886127

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSLB-468LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886127
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-93)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSLB-468LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT
Ballast/Driver: -

Summary

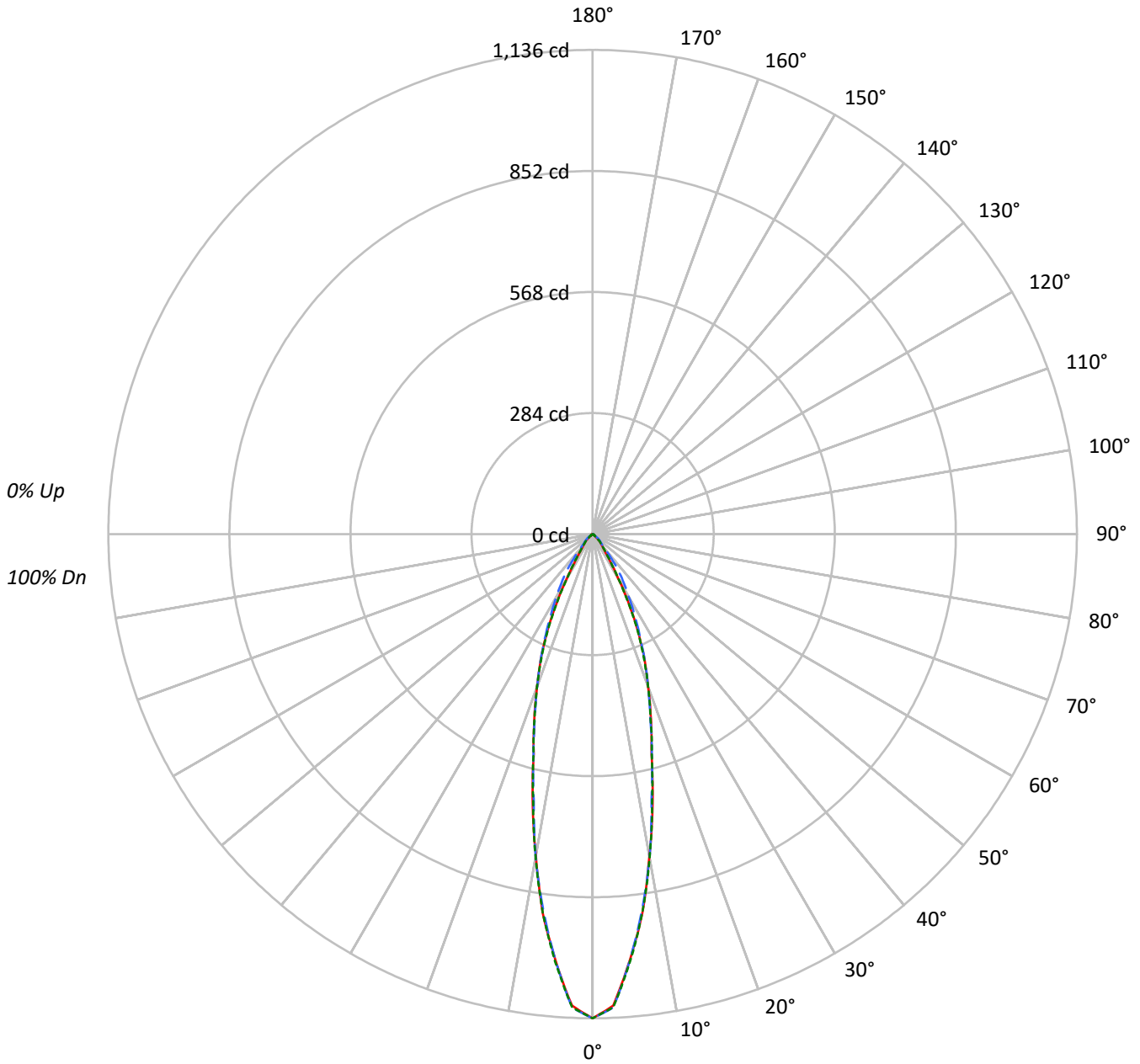
Lumens per Lamp: N/A
Luminaire Lumens: 429.1 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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: P886127
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSLB-468LM-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P886127

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSLB-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	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95																			
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90																			
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85																			
4	100	94	89	85	99	93	88	85	90	87	84	89	85	83	87	84	82	80																			
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76																			
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	73																			
7	89	80	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70	69																			
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66																			
9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63																			
10	79	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	440277	440277	440277
5°	390069	390069	391780
10°	301915	302623	303332
15°	214064	215147	215147
20°	156906	156535	156906
25°	107574	110994	106419
30°	53693	75708	54096
35°	24977	49954	26680
40°	16743	22662	16743
45°	11289	14248	10796
50°	4340	11333	4340
55°	3040	3648	3040
60°	2092	1395	2092
65°	1650	825	1650
70°	1020	1020	1020
75°	1347	1347	1347
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14248 cd/sqm



TEST NUMBER: P886127

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSLB-468LM-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	20.6
10°-20°	150.7	35.1
20°-30°	116.6	27.2
30°-40°	49.0	11.4
40°-50°	17.2	4.0
50°-60°	4.5	1.1
60°-70°	1.6	0.4
70°-80°	0.8	0.2
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°	356.0	83.0
0°-40°	405.0	94.4
0°-60°	426.7	99.5
0°-90°	429.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	429.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1003	1007	1003	1005	1007	89
15°	534	537	536	538	536	151
25°	252	260	260	259	249	112
35°	53	66	106	67	56	38
45°	21	22	26	22	20	15
55°	4	4	5	4	4	4
65°	2	2	1	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P886127

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D25NFL-TL2SDSLB-468LM-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1136.2	1136.2	1136.2	1136.2	1136.2
2.5°	1107.5	1105.7	1112.0	1112.0	1111.1
5°	1002.8	1007.2	1002.8	1004.6	1007.2
7.5°	896.2	892.6	889.1	890.0	895.3
10°	767.3	767.3	769.1	769.1	770.9
12.5°	650.0	639.3	638.4	644.6	644.6
15°	533.6	537.2	536.3	538.1	536.3
17.5°	454.8	450.3	449.5	453.0	452.1
20°	380.5	382.3	379.6	381.4	380.5
22.5°	317.8	316.9	317.8	318.7	312.5
25°	251.6	259.6	259.6	258.7	248.9
27.5°	182.6	202.3	210.4	198.8	180.0
30°	120.0	146.8	169.2	145.0	120.9
32.5°	79.7	97.6	136.1	98.5	81.5
35°	52.8	66.3	105.6	67.1	56.4
37.5°	40.3	48.3	73.4	47.5	41.2
40°	33.1	34.9	44.8	35.8	33.1
42.5°	26.9	27.8	31.3	27.8	26.9
45°	20.6	22.4	26.0	21.5	19.7
47.5°	9.8	15.2	22.4	14.3	12.5
50°	7.2	6.3	18.8	9.0	7.2
52.5°	5.4	4.5	13.4	4.5	5.4
55°	4.5	3.6	5.4	3.6	4.5
57.5°	3.6	2.7	2.7	2.7	3.6
60°	2.7	2.7	1.8	2.7	2.7
62.5°	2.7	1.8	1.8	1.8	2.7
65°	1.8	1.8	0.9	1.8	1.8
67.5°	1.8	0.9	0.9	0.9	1.8
70°	0.9	0.9	0.9	0.9	0.9
72.5°	0.9	0.9	0.9	0.9	0.9
75°	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.9	0.0	0.9	0.9
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)