

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: P886227

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-3500K

Issue Date: 6/20/2024

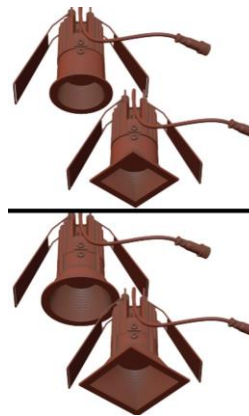
**Test Information**

Test Method: LM-79-2019  
Report Number: P886227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-106)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-3500K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

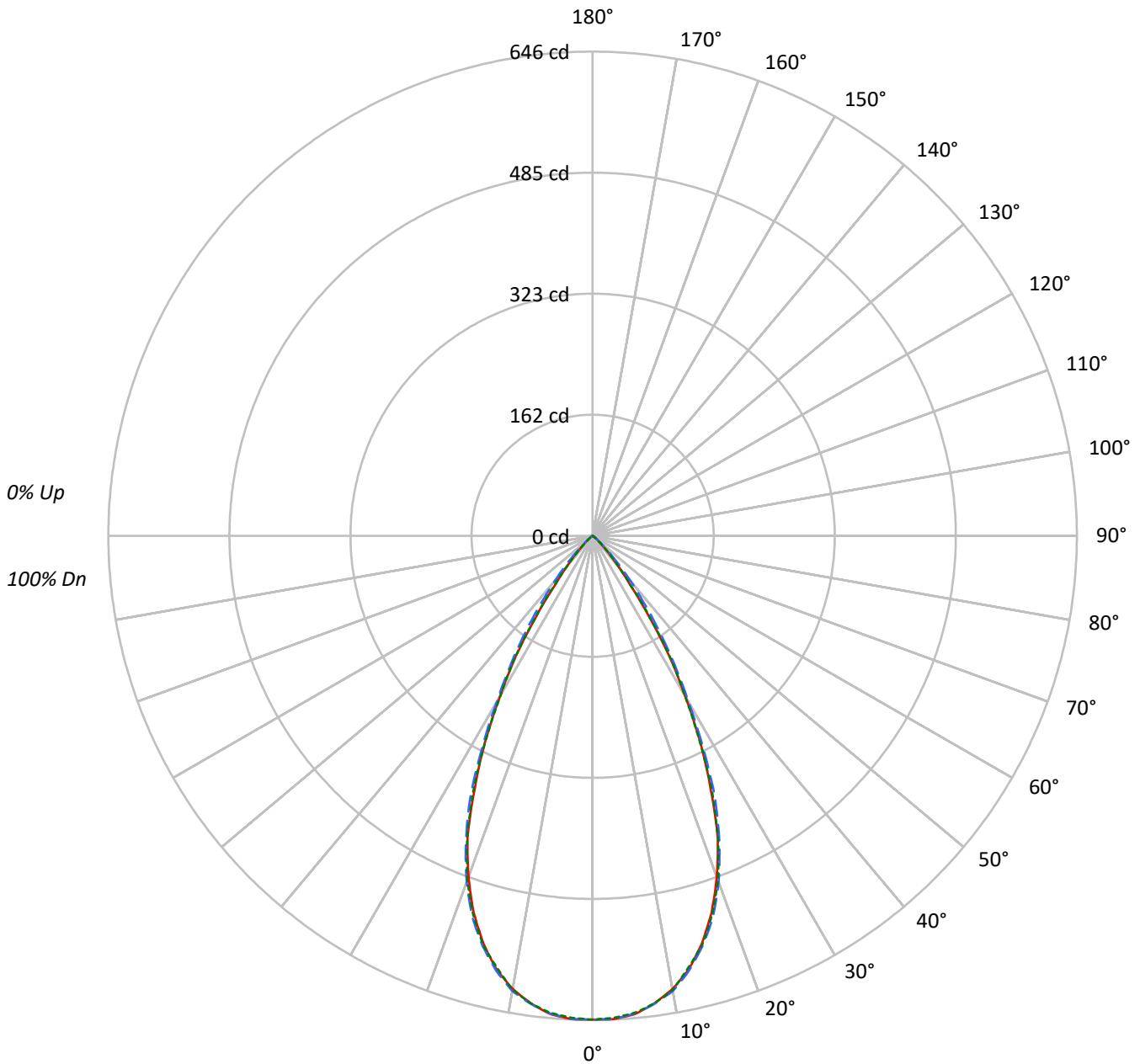
Lumens per Lamp: N/A  
Luminaire Lumens: 501.5 lumens  
Efficiency: N/A  
Efficacy: 62.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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: P886227  
CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P886227

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-3500K

**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	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	93	89	102	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	61	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°	250131	250131	250131
5°	249336	248986	248636
10°	241634	242697	241988
15°	225898	227342	226620
20°	199710	202679	201566
25°	159223	165337	161147
30°	110161	114143	109758
35°	61828	72850	63105
40°	26709	39405	26709
45°	10303	15673	10303
50°	3798	5426	3255
55°	608	1824	1216
60°	0	0	0
65°	0	0	0
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: 15673 cd/sqm



TEST NUMBER: P886227

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.3	12.0
10°-20°	157.0	31.3
20°-30°	171.1	34.1
30°-40°	90.6	18.1
40°-50°	20.4	4.1
50°-60°	2.1	0.4
60°-70°	0.0	0.0
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°	388.3	77.4
0°-40°	478.9	95.5
0°-60°	501.5	100.0
0°-90°	501.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	501.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	646	646	646	646	646	
5°	641	639	640	639	639	60
15°	563	563	567	564	565	156
25°	372	383	387	383	377	169
35°	131	144	154	143	133	84
45°	19	22	29	22	19	17
55°	1	2	3	2	2	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P886227

CATALOG NUMBER: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMBB-468LM-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	645.5	645.5	645.5	645.5	645.5
2.5°	645.5	644.6	645.5	644.6	643.7
5°	641.0	639.2	640.1	639.2	639.2
7.5°	629.4	629.4	630.2	630.2	629.4
10°	614.1	615.9	616.8	615.9	615.0
12.5°	592.6	590.9	594.4	592.6	590.0
15°	563.1	563.1	566.7	564.0	564.9
17.5°	527.3	531.8	533.6	530.0	530.0
20°	484.3	488.8	491.5	491.5	488.8
22.5°	436.0	443.1	442.2	442.2	436.9
25°	372.4	383.2	386.7	383.2	376.9
27.5°	311.5	310.6	319.6	315.1	309.8
30°	246.2	250.7	255.1	251.6	245.3
32.5°	190.7	197.8	202.3	196.1	192.5
35°	130.7	144.1	154.0	143.2	133.4
37.5°	80.6	93.1	111.0	94.9	83.3
40°	52.8	58.2	77.9	59.1	52.8
42.5°	33.1	36.7	50.1	36.7	33.1
45°	18.8	21.5	28.6	21.5	18.8
47.5°	10.7	11.6	15.2	11.6	9.8
50°	6.3	7.2	9.0	6.3	5.4
52.5°	2.7	3.6	4.5	3.6	2.7
55°	0.9	1.8	2.7	1.8	1.8
57.5°	0.0	0.9	0.9	0.9	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
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)