

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: P886220

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMB-468LM-2700K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-103)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMB-468LM-2700K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

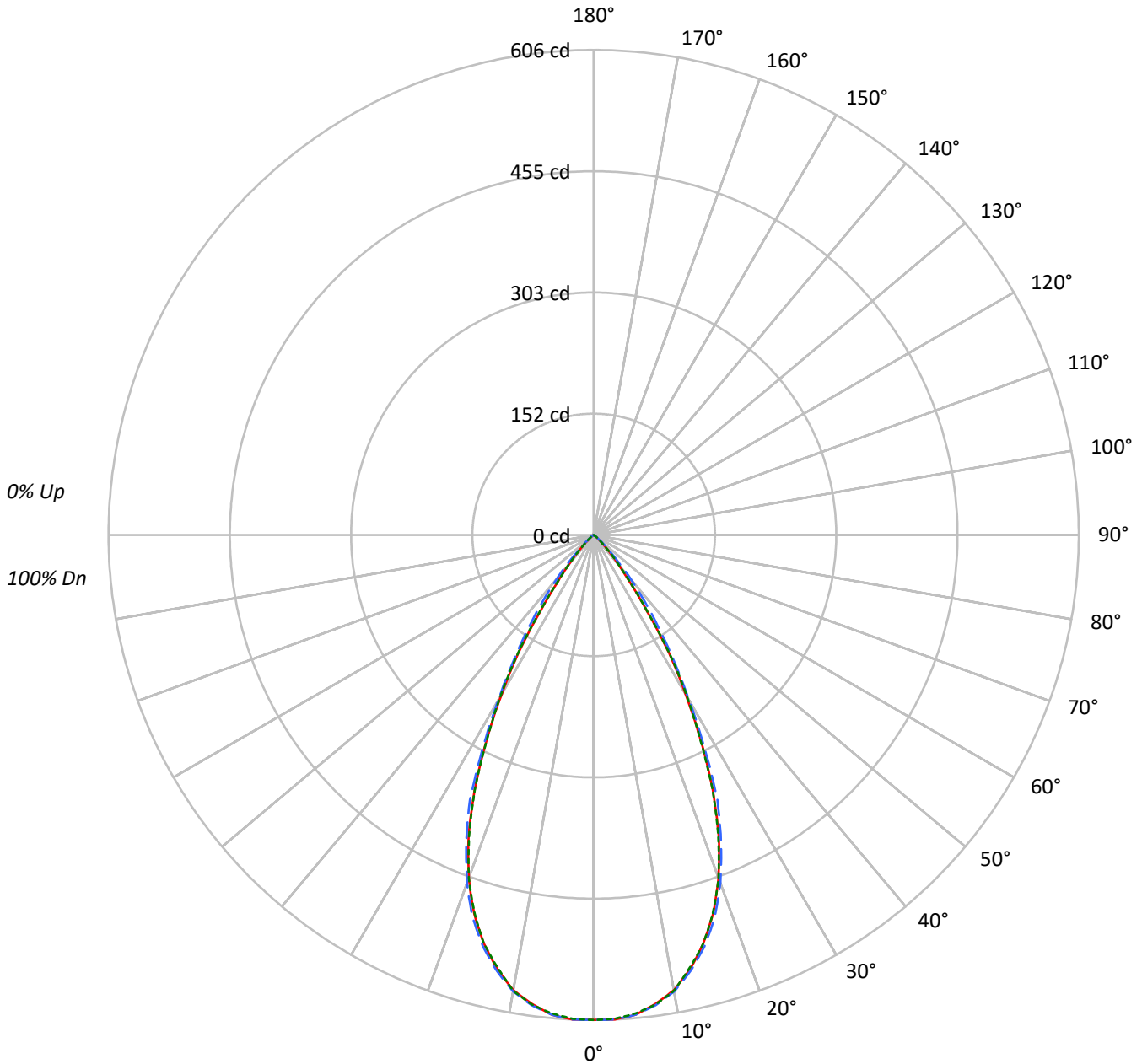
Lumens per Lamp: N/A  
Luminaire Lumens: 467.4 lumens  
Efficiency: N/A  
Efficacy: 58.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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

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

	0°	45°	90°
0°	234863	234863	234863
5°	234127	234127	233466
10°	227272	227902	227587
15°	212218	213863	212218
20°	188040	190803	188040
25°	150543	156273	150158
30°	102778	106537	104255
35°	54732	67031	55914
40°	24179	36471	24584
45°	9207	13317	9207
50°	2532	4521	3014
55°	540	1689	540
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: 13317 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.7	12.1
10°-20°	147.6	31.6
20°-30°	160.1	34.3
30°-40°	83.2	17.8
40°-50°	18.2	3.9
50°-60°	1.7	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°	364.4	78.0
0°-40°	447.5	95.7
0°-60°	467.4	100.0
0°-90°	467.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	467.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	602	601	602	601	600	57
15°	529	531	533	530	529	147
25°	352	355	366	354	351	158
35°	116	130	142	132	118	77
45°	17	18	24	18	17	15
55°	1	2	2	1	1	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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	606.1	606.1	606.1	606.1	606.1
2.5°	606.1	605.2	606.1	606.1	605.2
5°	601.9	601.0	601.9	601.0	600.2
7.5°	591.0	591.8	592.7	591.8	591.8
10°	577.6	578.4	579.2	578.4	578.4
12.5°	555.8	557.5	558.3	557.5	554.1
15°	529.0	530.6	533.1	529.8	529.0
17.5°	496.3	500.5	502.1	498.8	495.4
20°	456.0	460.2	462.7	460.2	456.0
22.5°	408.2	414.1	415.8	413.3	406.6
25°	352.1	354.6	365.5	353.8	351.2
27.5°	290.0	294.2	299.3	295.1	288.4
30°	229.7	233.9	238.1	235.6	233.0
32.5°	175.2	185.3	186.1	182.7	178.6
35°	115.7	129.9	141.7	132.4	118.2
37.5°	72.9	82.2	103.1	83.0	73.8
40°	47.8	52.0	72.1	52.8	48.6
42.5°	30.2	33.5	44.4	32.7	30.2
45°	16.8	18.4	24.3	18.4	16.8
47.5°	8.4	10.1	14.3	10.1	9.2
50°	4.2	5.9	7.5	5.9	5.0
52.5°	1.7	3.4	4.2	3.4	2.5
55°	0.8	1.7	2.5	0.8	0.8
57.5°	0.0	0.0	0.8	0.0	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



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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