

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: P886221

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMB-468LM-3000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886221  
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-3000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

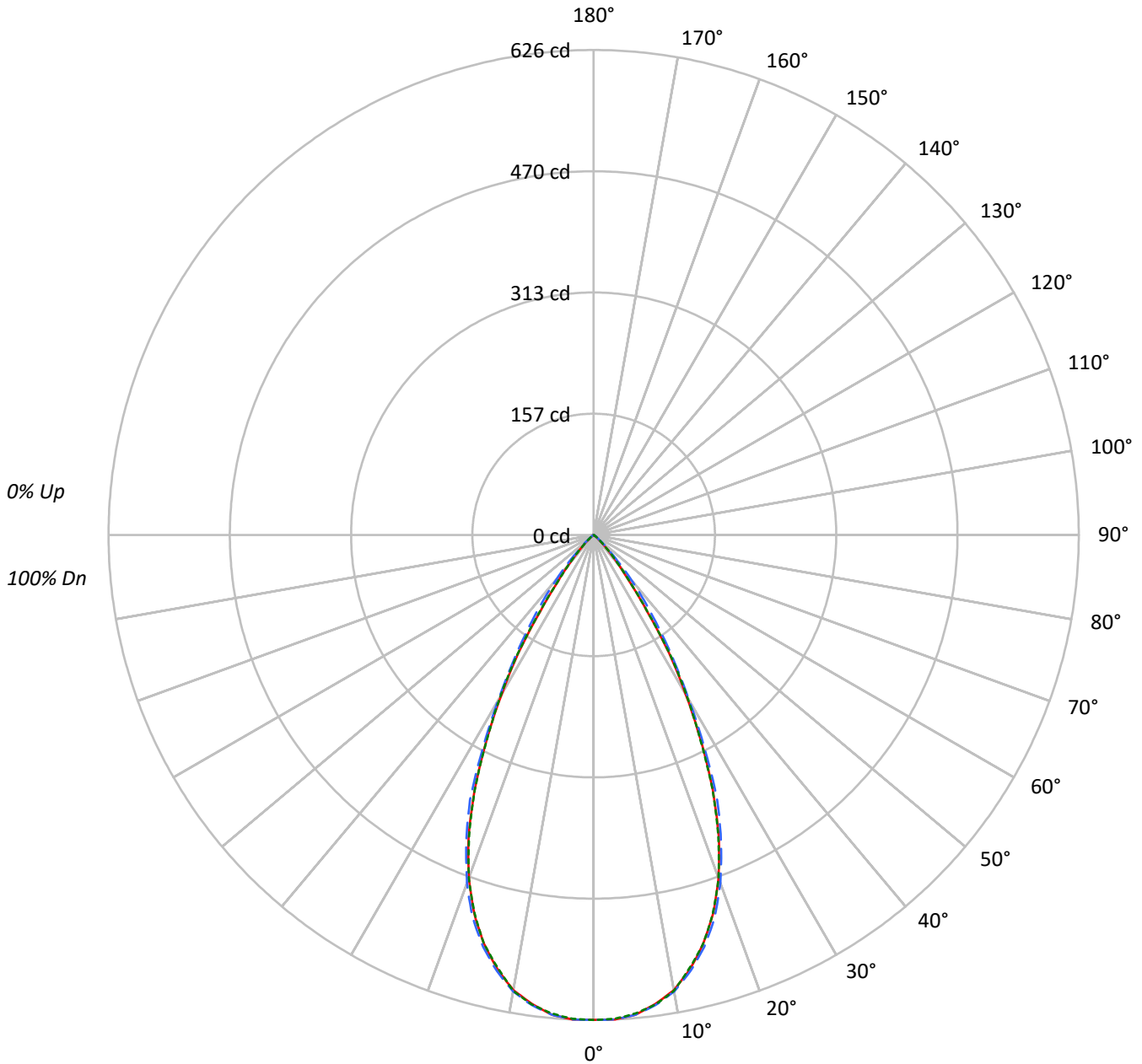
Lumens per Lamp: N/A  
Luminaire Lumens: 482.8 lumens  
Efficiency: N/A  
Efficacy: 60.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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°	242613	242613	242613
5°	241829	241829	241167
10°	234748	235457	235103
15°	219199	220924	219199
20°	194267	197112	194267
25°	155503	161403	155118
30°	106179	110027	107700
35°	56529	69207	57759
40°	24989	37685	25393
45°	9481	13755	9481
50°	2592	4702	3135
55°	608	1757	608
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: 13755 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.5	12.1
10°-20°	152.4	31.6
20°-30°	165.4	34.3
30°-40°	85.9	17.8
40°-50°	18.8	3.9
50°-60°	1.8	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°	376.4	77.9
0°-40°	462.3	95.7
0°-60°	482.8	100.0
0°-90°	482.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	482.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	622	621	622	621	620	58
15°	546	548	551	547	546	152
25°	364	366	378	365	363	163
35°	120	134	146	137	122	79
45°	17	19	25	19	17	16
55°	1	2	3	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°	626.1	626.1	626.1	626.1	626.1
2.5°	626.1	625.2	626.1	626.1	625.2
5°	621.7	620.9	621.7	620.9	620.0
7.5°	610.5	611.3	612.2	611.3	611.3
10°	596.6	597.5	598.4	597.5	597.5
12.5°	574.1	575.8	576.7	575.8	572.4
15°	546.4	548.1	550.7	547.3	546.4
17.5°	512.6	517.0	518.7	515.2	511.8
20°	471.1	475.4	478.0	475.4	471.1
22.5°	421.7	427.8	429.5	426.9	420.0
25°	363.7	366.3	377.5	365.4	362.8
27.5°	299.6	303.9	309.1	304.8	297.9
30°	237.3	241.6	245.9	243.3	240.7
32.5°	181.0	191.4	192.2	188.8	184.4
35°	119.5	134.2	146.3	136.8	122.1
37.5°	75.3	84.9	106.5	85.7	76.2
40°	49.4	53.7	74.5	54.6	50.2
42.5°	31.2	34.6	45.9	33.8	31.2
45°	17.3	19.1	25.1	19.1	17.3
47.5°	8.7	10.4	14.7	10.4	9.5
50°	4.3	6.1	7.8	6.1	5.2
52.5°	1.7	3.5	4.3	3.5	2.6
55°	0.9	1.7	2.6	0.9	0.9
57.5°	0.0	0.0	0.9	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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