

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: P886102

Luminaire Tested: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMB-468LM-3500K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886102  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-91)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D25NFL-TL2SDMB-468LM-3500K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

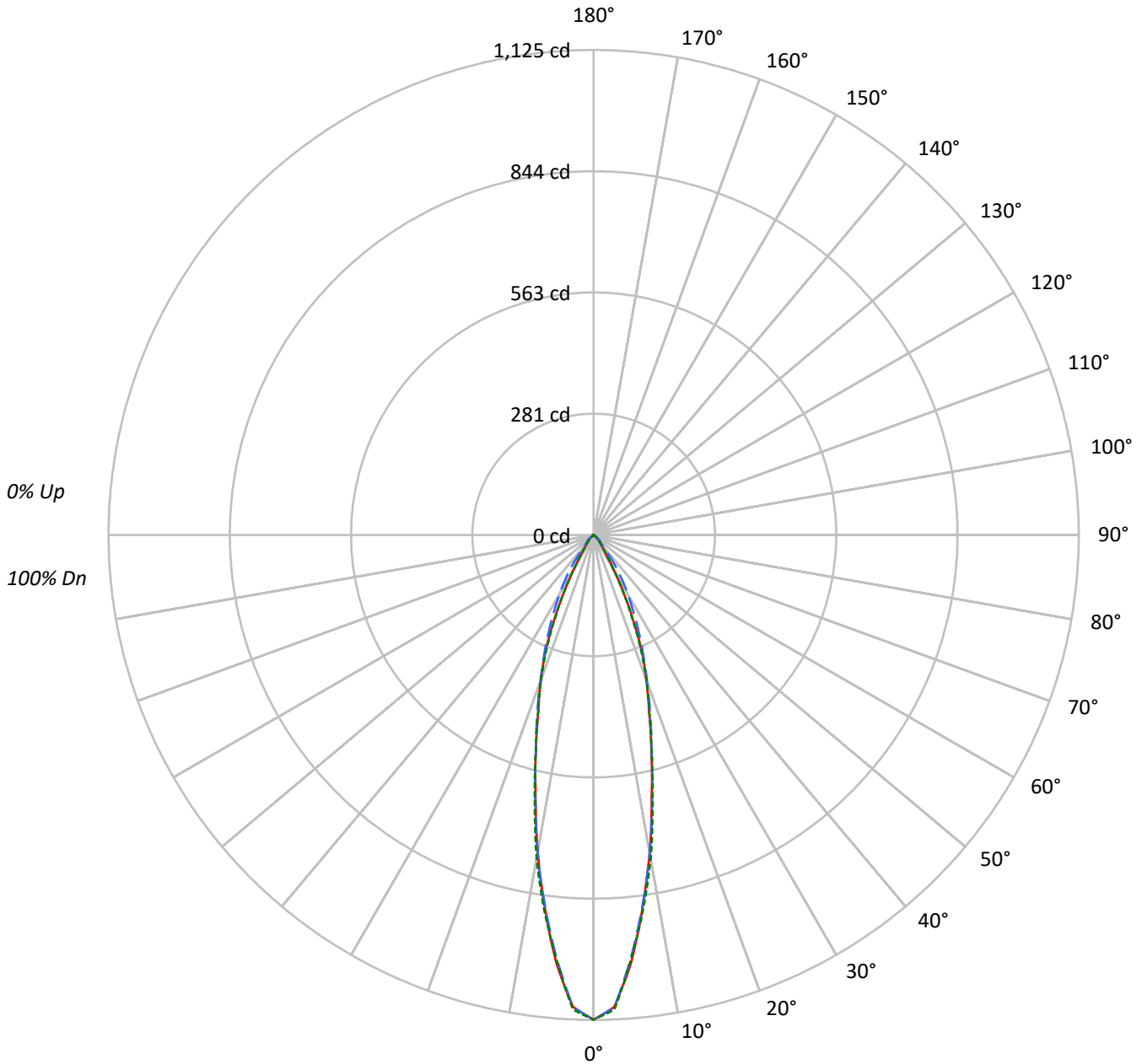
Lumens per Lamp: N/A  
Luminaire Lumens: 387.6 lumens  
Efficiency: N/A  
Efficacy: 48.5 lumens/watt  
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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									
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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95																			
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91																			
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86																			
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82																			
5	97	90	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	78																			
6	94	86	81	78	92	86	81	77	84	80	77	83	79	76	82	78	76	75																			
7	90	82	77	74	89	82	77	74	81	76	73	80	76	73	79	75	73	72																			
8	87	79	74	71	86	78	74	70	77	73	70	77	73	70	76	72	70	69																			
9	84	76	71	68	83	75	71	67	74	70	67	74	70	67	73	69	67	66																			
10	81	73	68	65	80	72	68	65	72	67	65	71	67	64	70	67	64	63																			

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

	0°	45°	90°
0°	435821	435821	435821
5°	387696	383495	384895
10°	293849	294557	299869
15°	207284	208367	208006
20°	146968	148824	147339
25°	91882	104923	89189
30°	40852	70920	40046
35°	17361	41108	18212
40°	10420	16288	10420
45°	5864	11289	4932
50°	543	8621	543
55°	0	1824	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: 11289 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.0	22.4
10°-20°	145.1	37.4
20°-30°	105.3	27.2
30°-40°	37.9	9.8
40°-50°	11.1	2.9
50°-60°	1.4	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°	337.3	87.0
0°-40°	375.2	96.8
0°-60°	387.6	100.0
0°-90°	387.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	387.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	997	988	986	994	990	87
15°	517	517	519	513	518	144
25°	215	237	245	230	209	98
35°	37	50	87	50	38	27
45°	11	14	21	14	9	7
55°	0	1	3	1	1	0
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°	1124.7	1124.7	1124.7	1124.7	1124.7
2.5°	1096.1	1093.4	1097.0	1097.9	1102.3
5°	996.7	987.7	985.9	994.0	989.5
7.5°	870.4	871.3	866.8	876.7	877.6
10°	746.8	747.7	748.6	752.2	762.1
12.5°	621.5	624.2	625.1	623.3	631.3
15°	516.7	516.7	519.4	513.1	518.5
17.5°	426.3	429.8	434.3	428.9	428.0
20°	356.4	359.1	360.9	360.0	357.3
22.5°	292.8	298.2	300.0	292.8	283.0
25°	214.9	237.3	245.4	230.1	208.6
27.5°	146.0	176.4	197.0	170.1	144.2
30°	91.3	117.3	158.5	117.3	89.5
32.5°	55.5	73.4	121.8	76.1	58.2
35°	36.7	50.1	86.9	50.1	38.5
37.5°	26.9	34.9	51.0	34.9	27.8
40°	20.6	24.2	32.2	25.1	20.6
42.5°	16.1	18.8	24.2	18.8	15.2
45°	10.7	14.3	20.6	14.3	9.0
47.5°	1.8	8.1	17.9	7.2	4.5
50°	0.9	0.9	14.3	2.7	0.9
52.5°	0.9	0.9	8.1	0.9	0.9
55°	0.0	0.9	2.7	0.9	0.9
57.5°	0.0	0.0	0.0	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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