

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: P886165

Luminaire Tested: ML204LSFL95FS1E-TIR1D40FL-TL2SDMBB-468LM-2700K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-100)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D40FL-TL2SDMBB-468LM-2700K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

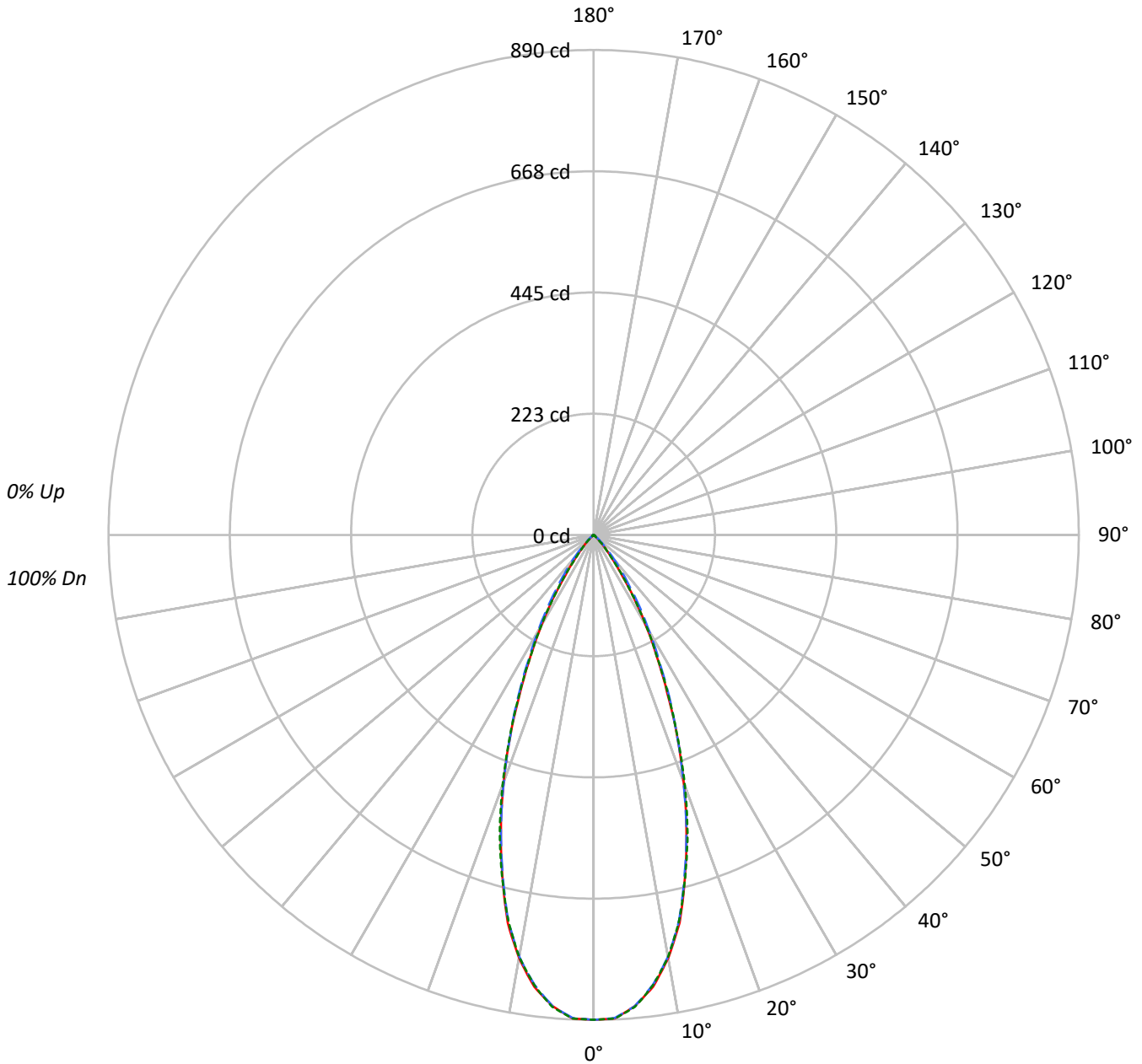
Lumens per Lamp: N/A  
Luminaire Lumens: 490.9 lumens  
Efficiency: N/A  
Efficacy: 61.4 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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					70					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	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	96	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90								
3	105	99	94	91	103	97	93	90	95	92	89	93	90	87	90	88	86	85								
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80								
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76								
6	92	84	79	75	90	83	78	74	82	77	74	80	76	73	79	76	73	72								
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68								
8	84	76	71	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65								
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62								
10	78	69	64	61	77	69	64	60	68	63	60	67	63	60	67	63	60	59								

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

	0°	45°	90°
0°	344797	344797	344797
5°	337634	337634	338296
10°	310217	309194	309549
15°	259757	258714	260399
20°	199215	198514	201277
25°	136263	139854	138059
30°	85552	91189	86312
35°	43237	54353	43662
40°	19526	28833	19070
45°	6905	12385	6412
50°	1507	5064	2050
55°	540	1148	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: 12385 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.3	16.3
10°-20°	178.0	36.3
20°-30°	149.1	30.4
30°-40°	67.3	13.7
40°-50°	15.0	3.1
50°-60°	1.3	0.3
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°	407.4	83.0
0°-40°	474.6	96.7
0°-60°	490.9	100.0
0°-90°	490.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	490.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	890	890	890	890	890	
5°	868	868	868	867	870	80
15°	648	647	645	650	649	178
25°	319	325	327	325	323	147
35°	91	104	115	102	92	62
45°	13	17	23	16	12	12
55°	1	1	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°	889.8	889.8	889.8	889.8	889.8
2.5°	888.2	888.2	887.3	887.3	888.2
5°	868.0	868.0	868.0	867.2	869.7
7.5°	836.2	835.3	832.8	832.8	833.7
10°	788.4	786.7	785.8	788.4	786.7
12.5°	728.8	726.3	724.6	725.5	724.6
15°	647.5	646.6	644.9	650.0	649.1
17.5°	566.1	563.6	566.1	565.3	572.8
20°	483.1	485.6	481.4	484.8	488.1
22.5°	400.9	404.2	400.9	401.7	402.6
25°	318.7	325.4	327.1	324.6	322.9
27.5°	249.9	255.8	259.2	255.8	250.8
30°	191.2	193.7	203.8	196.3	192.9
32.5°	139.2	148.4	156.0	148.4	138.4
35°	91.4	104.0	114.9	102.3	92.3
37.5°	58.7	66.3	82.2	67.1	57.9
40°	38.6	41.9	57.0	42.8	37.7
42.5°	24.3	28.5	36.9	27.7	23.5
45°	12.6	16.8	22.6	15.9	11.7
47.5°	4.2	7.5	14.3	8.4	5.0
50°	2.5	3.4	8.4	3.4	3.4
52.5°	1.7	1.7	3.4	1.7	1.7
55°	0.8	0.8	1.7	0.8	0.8
57.5°	0.0	0.0	0.8	0.8	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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