

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: P886232

Luminaire Tested: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMW-468LM-3500K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-101)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL95FS1E-TIR1D55WFL-TL2SDMW-468LM-3500K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 95CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

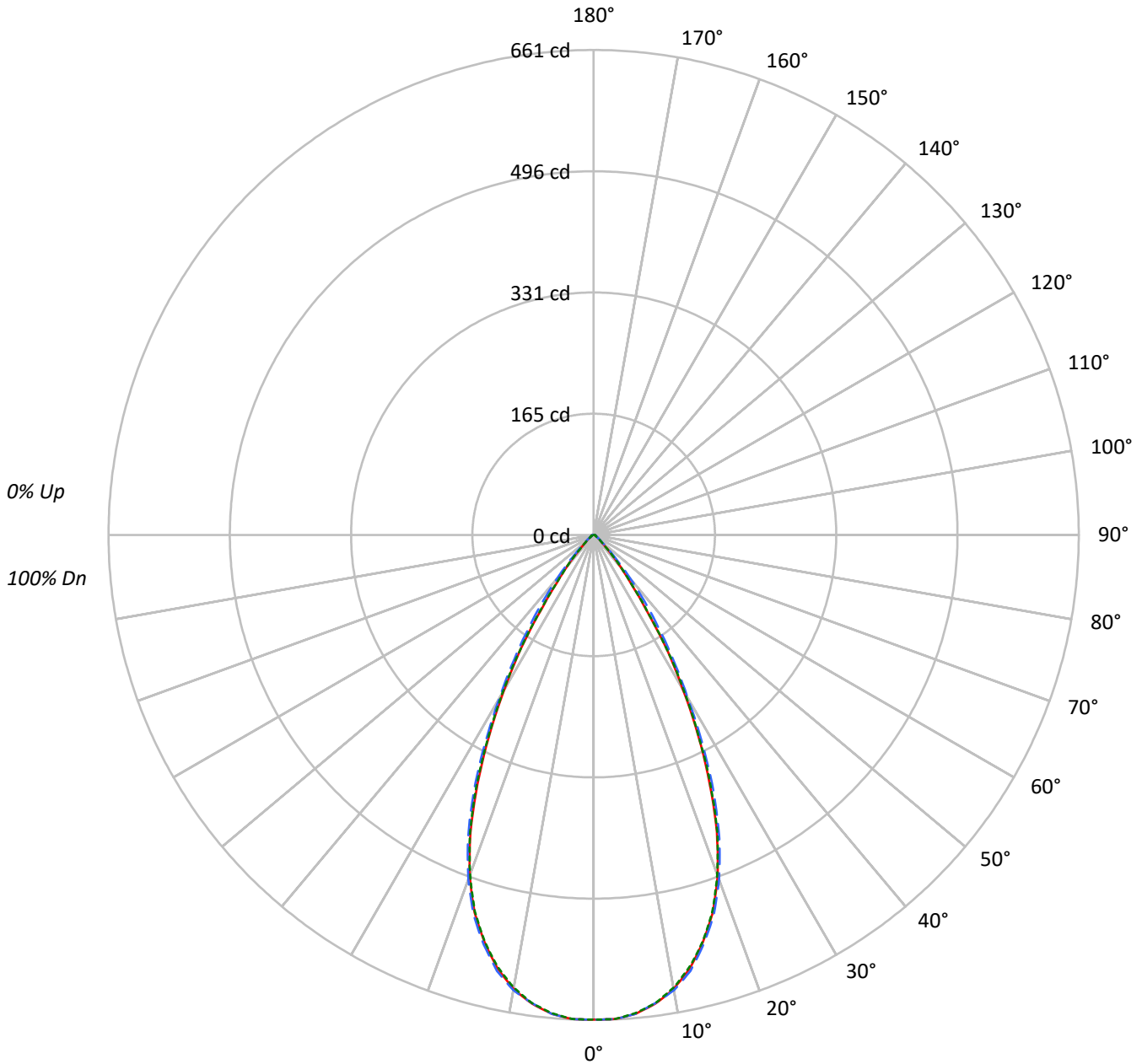
Lumens per Lamp: N/A  
Luminaire Lumens: 519.9 lumens  
Efficiency: N/A  
Efficacy: 65.0 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.82  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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	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	100	100	100	100	100		
	1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94	94	94	94	94	94		
	2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87	87	87	87	87	87		
	3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81	81	81	81	81	81		
	4	98	90	85	81	96	89	84	80	87	83	80	85	82	79	83	80	78	76	76	76	76	76	76		
	5	93	85	79	75	92	84	79	75	82	78	74	81	77	73	79	76	73	71	71	71	71	71	71		
	6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67	67	67	67	67	67		
	7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63	63	63	63	63	63		
	8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59	59	59	59	59	59		
	9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56	56	56	56	56	56		
	10	74	64	59	55	73	64	58	55	63	58	55	62	58	54	61	57	54	53	53	53	53	53	53		

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

	0°	45°	90°
0°	255982	255982	255982
5°	254859	254859	254509
10°	247261	247969	246553
15°	230552	231956	230191
20°	203751	205978	203009
25°	159992	165337	161489
30°	108953	114546	110922
35°	59273	72424	60976
40°	28985	38950	28985
45°	12275	17153	12769
50°	6450	8078	6450
55°	4256	4864	4256
60°	3487	3487	3487
65°	3301	3301	3301
70°	3059	3059	3059
75°	2695	4042	2695
80°	4017	4017	4017
85°	4001	4001	4001

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 17153 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.7	11.9
10°-20°	160.1	30.8
20°-30°	171.8	33.1
30°-40°	90.0	17.3
40°-50°	23.1	4.4
50°-60°	6.3	1.2
60°-70°	3.7	0.7
70°-80°	2.4	0.5
80°-90°	0.7	0.1
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°	393.6	75.7
0°-40°	483.5	93.0
0°-60°	513.0	98.7
0°-90°	519.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	519.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	661	661	661	661	661	
5°	655	655	655	654	654	62
15°	575	576	578	575	574	160
25°	374	381	387	380	378	169
35°	125	141	153	140	129	83
45°	22	25	31	25	23	20
55°	6	6	7	6	6	6
65°	4	4	4	4	4	4
75°	2	3	3	3	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	660.6	660.6	660.6	660.6	660.6
2.5°	660.6	660.6	660.6	659.7	660.6
5°	655.2	655.2	655.2	654.3	654.3
7.5°	644.5	644.5	643.6	644.5	643.6
10°	628.4	628.4	630.2	628.4	626.6
12.5°	605.1	606.0	608.7	605.1	603.3
15°	574.7	575.6	578.2	574.7	573.8
17.5°	539.7	543.3	543.3	540.6	538.0
20°	494.1	495.9	499.5	495.9	492.3
22.5°	438.6	447.6	447.6	443.1	440.4
25°	374.2	381.3	386.7	380.4	377.7
27.5°	308.8	315.1	320.4	315.1	310.6
30°	243.5	249.7	256.0	252.4	247.9
32.5°	187.1	194.2	201.4	195.1	188.0
35°	125.3	141.4	153.1	140.5	128.9
37.5°	83.2	92.2	111.9	94.0	84.1
40°	57.3	60.0	77.0	60.0	57.3
42.5°	36.7	40.3	50.1	40.3	37.6
45°	22.4	25.1	31.3	25.1	23.3
47.5°	15.2	16.1	18.8	16.1	15.2
50°	10.7	10.7	13.4	11.6	10.7
52.5°	8.1	8.1	9.8	9.0	8.1
55°	6.3	6.3	7.2	6.3	6.3
57.5°	4.5	5.4	5.4	5.4	4.5
60°	4.5	4.5	4.5	4.5	4.5
62.5°	3.6	4.5	4.5	4.5	3.6
65°	3.6	3.6	3.6	3.6	3.6
67.5°	3.6	3.6	3.6	3.6	3.6
70°	2.7	2.7	2.7	2.7	2.7
72.5°	2.7	2.7	2.7	2.7	2.7
75°	1.8	2.7	2.7	2.7	1.8
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.8	1.8	1.8	1.8	1.8
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.9	0.9	0.9	0.9	0.9
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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