

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: P886416

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMBB-550LM-3000K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-106)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMBB-550LM-3000K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE BLACK BAFFLED TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

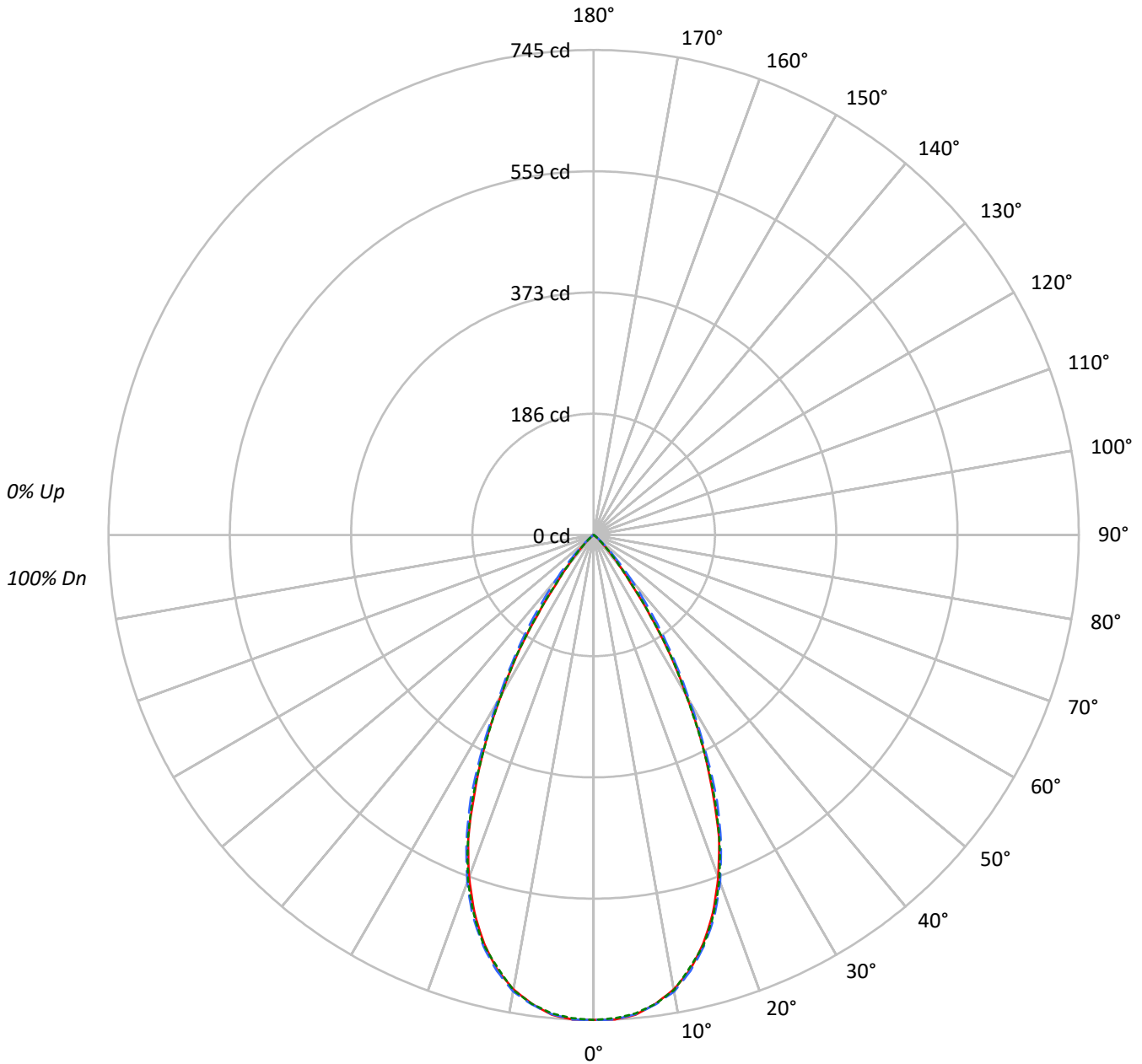
Lumens per Lamp: N/A  
Luminaire Lumens: 578.9 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.82  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.9  
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	100	100	100	100	100		
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94		
	2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88	88	88	88	88	88		
	3	103	97	93	89	102	96	92	88	93	90	87	91	88	85	89	86	84	83	83	83	83	83	83		
	4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77	77	77	77	77	77		
	5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	73	73	73	73	73	73		
	6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68	68	68	68	68	68		
	7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64	64	64	64	64	64		
	8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61	61	61	61	61	61		
	9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	61	59	57	57	57	57	57	57		
	10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54	54	54	54	54	54		

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

	0°	45°	90°
0°	288726	288726	288726
5°	287845	287417	287028
10°	278936	280195	279369
15°	260760	262445	261602
20°	230555	233978	232699
25°	183807	190905	186031
30°	127164	131773	126717
35°	71383	84108	72850
40°	30857	45475	30857
45°	11892	18139	11892
50°	4340	6209	3738
55°	676	2094	1419
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: 18139 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.6	12.0
10°-20°	181.2	31.3
20°-30°	197.5	34.1
30°-40°	104.6	18.1
40°-50°	23.6	4.1
50°-60°	2.4	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°	448.3	77.4
0°-40°	552.9	95.5
0°-60°	578.9	100.0
0°-90°	578.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	578.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	745	745	745	745	745	
5°	740	738	739	738	738	70
15°	650	650	654	651	652	180
25°	430	442	446	442	435	195
35°	151	166	178	165	154	97
45°	22	25	33	25	22	20
55°	1	2	3	2	2	2
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°	745.1	745.1	745.1	745.1	745.1
2.5°	745.1	744.1	745.1	744.1	743.1
5°	740.0	737.9	738.9	737.9	737.9
7.5°	726.5	726.5	727.6	727.6	726.5
10°	708.9	711.0	712.1	711.0	710.0
12.5°	684.1	682.1	686.2	684.1	681.0
15°	650.0	650.0	654.2	651.1	652.1
17.5°	608.7	613.9	615.9	611.8	611.8
20°	559.1	564.3	567.4	567.4	564.3
22.5°	503.3	511.6	510.5	510.5	504.3
25°	429.9	442.3	446.5	442.3	435.1
27.5°	359.6	358.6	368.9	363.8	357.6
30°	284.2	289.4	294.5	290.4	283.2
32.5°	220.1	228.4	233.6	226.3	222.2
35°	150.9	166.4	177.8	165.4	154.0
37.5°	93.0	107.5	128.1	109.5	96.1
40°	61.0	67.2	89.9	68.2	61.0
42.5°	38.2	42.4	57.9	42.4	38.2
45°	21.7	24.8	33.1	24.8	21.7
47.5°	12.4	13.4	17.6	13.4	11.4
50°	7.2	8.3	10.3	7.2	6.2
52.5°	3.1	4.1	5.2	4.1	3.1
55°	1.0	2.1	3.1	2.1	2.1
57.5°	0.0	1.0	1.0	1.0	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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