

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: P886425

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMWB-550LM-2700K

Issue Date: 6/20/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P886425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-104)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/20/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMWB-550LM-2700K  
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

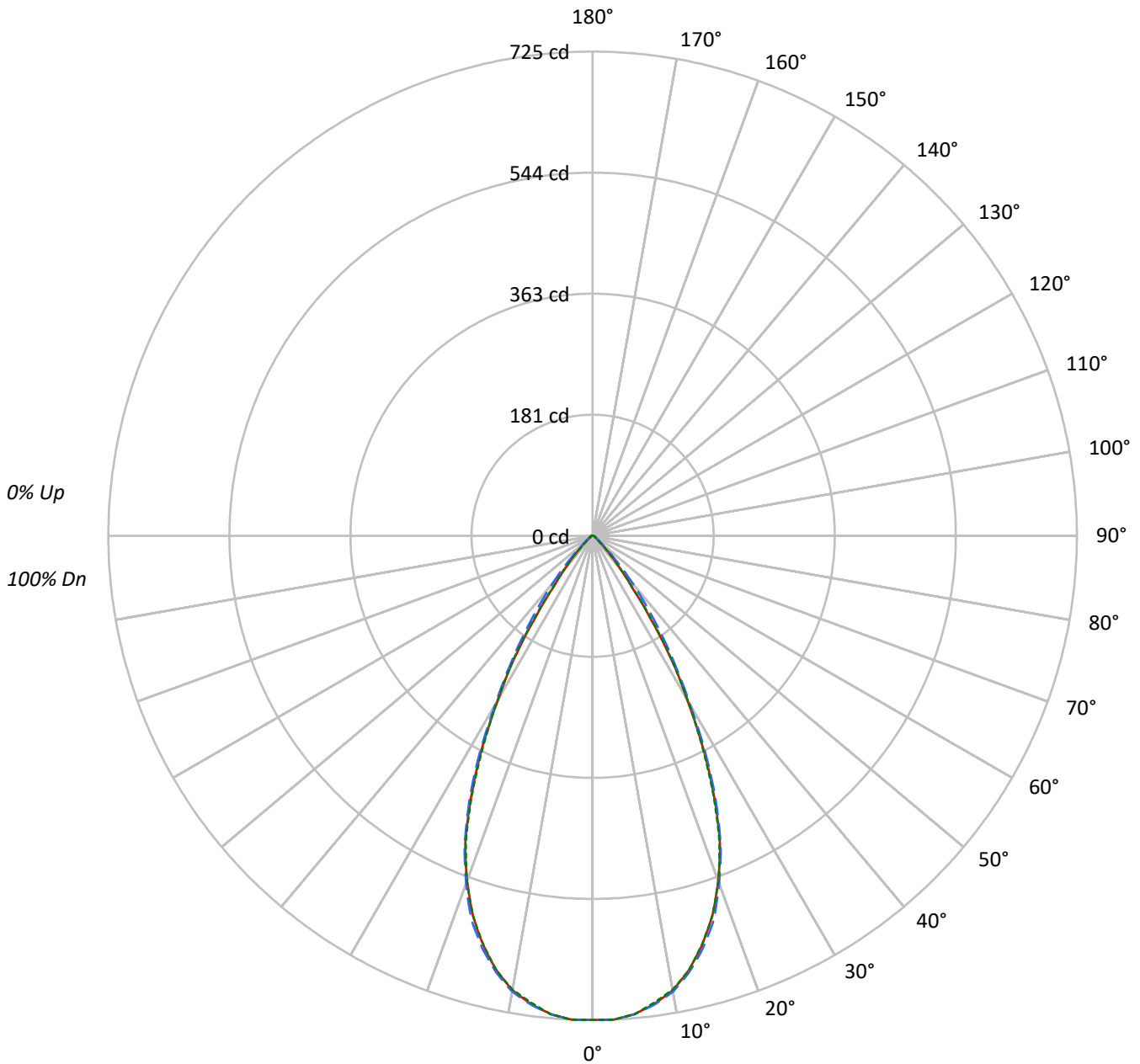
Lumens per Lamp: N/A  
Luminaire Lumens: 585.4 lumens  
Efficiency: N/A  
Efficacy: 74.1 lumens/watt  
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.83  
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')  
CIE Type: Direct

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

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

	0°	45°	90°
0°	280976	280976	280976
5°	279715	279715	279715
10°	271932	272719	271539
15°	254381	256387	253980
20°	226844	228493	226844
25°	183893	186458	182610
30°	126224	129804	127119
35°	70484	83730	73796
40°	32374	47044	32880
45°	14248	21372	14248
50°	6631	9645	6631
55°	4054	5405	4054
60°	3100	3875	3100
65°	3668	3668	3668
70°	3399	3399	3399
75°	2994	2994	2994
80°	4463	4463	4463
85°	4446	4446	4446

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 21372 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	11.6
10°-20°	176.9	30.2
20°-30°	194.4	33.2
30°-40°	105.1	18.0
40°-50°	27.3	4.7
50°-60°	6.8	1.2
60°-70°	3.9	0.7
70°-80°	2.5	0.4
80°-90°	0.8	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°	439.0	75.0
0°-40°	544.2	93.0
0°-60°	578.2	98.8
0°-90°	585.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	585.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	719	718	719	718	719	68
15°	634	637	639	634	633	176
25°	430	433	436	434	427	193
35°	149	169	177	168	156	97
45°	26	29	39	30	26	23
55°	6	7	8	7	6	6
65°	4	4	4	4	4	4
75°	2	2	2	2	2	3
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°	725.1	725.1	725.1	725.1	725.1
2.5°	725.1	725.1	725.1	724.1	725.1
5°	719.1	718.1	719.1	718.1	719.1
7.5°	707.1	708.1	708.1	708.1	705.1
10°	691.1	691.1	693.1	691.1	690.1
12.5°	666.1	668.1	669.1	665.1	666.1
15°	634.1	637.1	639.1	634.1	633.1
17.5°	596.1	598.1	603.1	600.1	596.1
20°	550.1	554.1	554.1	552.1	550.1
22.5°	498.1	501.1	501.1	499.1	496.1
25°	430.1	433.1	436.1	434.1	427.1
27.5°	358.1	357.1	365.1	360.1	355.1
30°	282.1	286.1	290.1	286.1	284.1
32.5°	220.0	226.0	231.0	227.0	222.0
35°	149.0	169.0	177.0	168.0	156.0
37.5°	96.0	112.0	130.0	112.0	98.0
40°	64.0	70.0	93.0	72.0	65.0
42.5°	43.0	47.0	62.0	48.0	44.0
45°	26.0	29.0	39.0	30.0	26.0
47.5°	16.0	18.0	24.0	18.0	16.0
50°	11.0	13.0	16.0	13.0	11.0
52.5°	8.0	9.0	11.0	9.0	8.0
55°	6.0	7.0	8.0	7.0	6.0
57.5°	5.0	5.0	6.0	5.0	5.0
60°	4.0	5.0	5.0	5.0	4.0
62.5°	4.0	4.0	4.0	4.0	4.0
65°	4.0	4.0	4.0	4.0	4.0
67.5°	3.0	4.0	4.0	4.0	3.0
70°	3.0	3.0	3.0	3.0	3.0
72.5°	3.0	3.0	3.0	3.0	3.0
75°	2.0	2.0	2.0	2.0	2.0
77.5°	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	2.0	2.0	2.0
82.5°	1.0	1.0	1.0	1.0	1.0
85°	1.0	1.0	1.0	1.0	1.0
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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