

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P886309

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMWB-550LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-92)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMWB-550LM-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

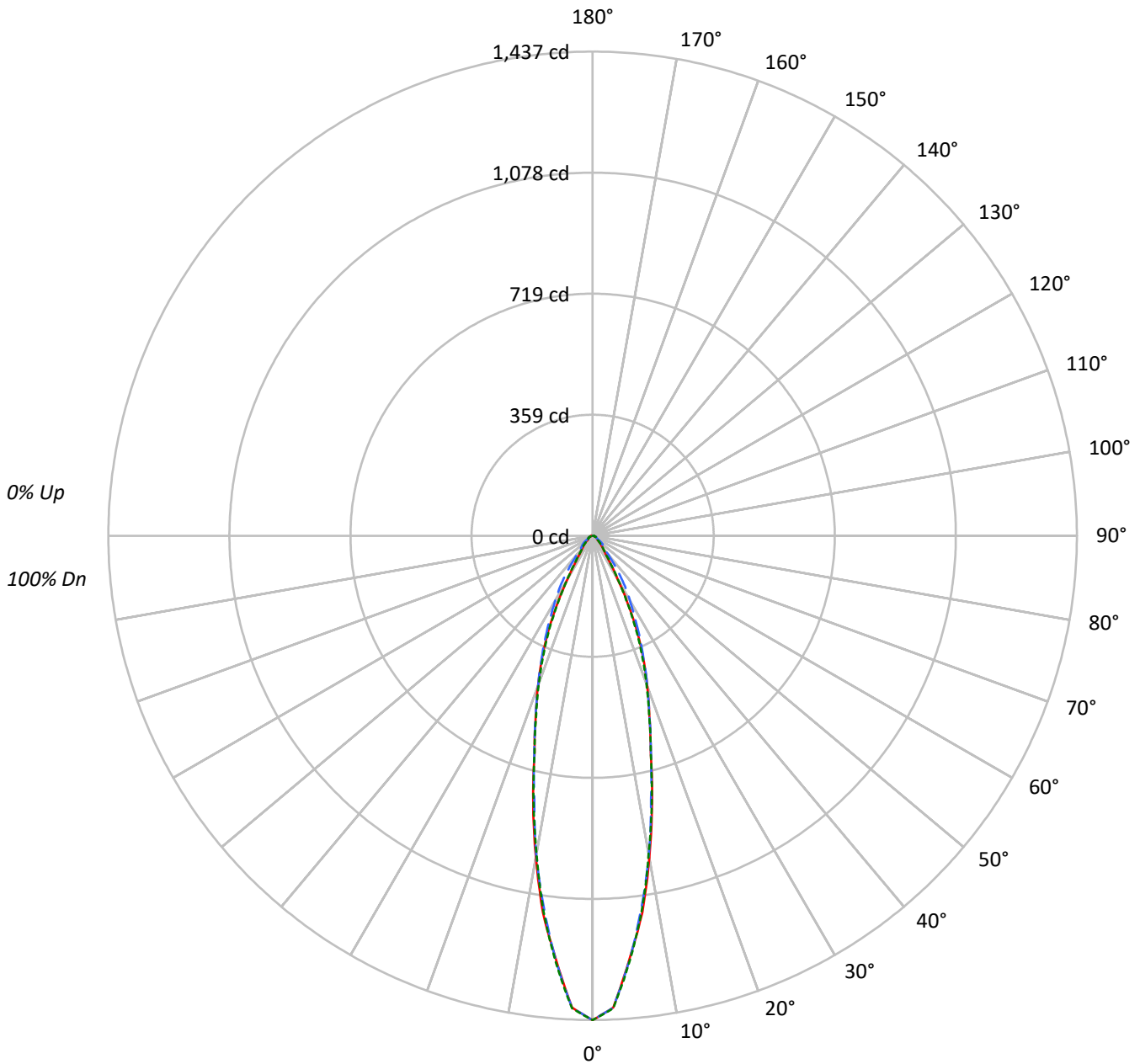
Lumens per Lamp: N/A
Luminaire Lumens: 575.3 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.46 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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									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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87																			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82																			
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77																			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72																			
6	90	81	76	72	88	81	75	71	79	74	71	78	74	70	76	73	70	69																			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65																			
8	82	74	68	64	81	73	68	64	72	67	64	71	67	64	70	66	63	62																			
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	59																			
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	556992	556992	556992
5°	489570	490931	492720
10°	381476	378722	376912
15°	266898	267820	266898
20°	195339	195339	191999
25°	133056	140966	128567
30°	66490	98170	68593
35°	32404	64240	34060
40°	22915	34650	23471
45°	18468	24825	17153
50°	11213	22426	11213
55°	11012	14120	11012
60°	10772	10772	10772
65°	10636	10636	10636
70°	9177	10537	10537
75°	10480	10480	10480
80°	10265	7810	10265
85°	10226	5335	10226

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 24825 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	19.3
10°-20°	187.7	32.6
20°-30°	144.9	25.2
30°-40°	64.5	11.2
40°-50°	29.7	5.2
50°-60°	16.4	2.8
60°-70°	11.5	2.0
70°-80°	7.2	1.2
80°-90°	2.3	0.4
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°	443.8	77.2
0°-40°	508.3	88.4
0°-60°	554.3	96.4
0°-90°	575.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	575.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1259	1263	1262	1264	1267	112
15°	665	669	668	669	665	189
25°	311	325	330	318	301	139
35°	68	88	136	91	72	49
45°	34	38	45	37	31	25
55°	16	16	21	16	16	15
65°	12	12	12	12	12	11
75°	7	7	7	7	7	7
85°	2	2	1	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.4	1437.4	1437.4	1437.4	1437.4
2.5°	1401.4	1400.2	1401.4	1403.7	1403.7
5°	1258.6	1263.2	1262.1	1264.4	1266.7
7.5°	1128.5	1118.1	1111.1	1113.4	1120.4
10°	969.5	956.7	962.5	959.0	957.9
12.5°	815.1	802.3	800.0	803.4	810.4
15°	665.3	668.8	667.6	668.8	665.3
17.5°	560.8	559.6	560.8	560.8	557.3
20°	473.7	470.2	473.7	471.4	465.6
22.5°	392.4	397.1	394.8	395.9	382.0
25°	311.2	325.1	329.7	318.1	300.7
27.5°	225.2	250.8	267.0	245.0	218.3
30°	148.6	182.3	219.4	178.8	153.3
32.5°	101.0	125.4	178.8	127.7	103.3
35°	68.5	88.2	135.8	90.6	72.0
37.5°	54.6	66.2	97.5	67.3	55.7
40°	45.3	53.4	68.5	53.4	46.4
42.5°	39.5	44.1	52.2	44.1	40.6
45°	33.7	38.3	45.3	37.2	31.3
47.5°	24.4	30.2	40.6	29.0	25.5
50°	18.6	20.9	37.2	23.2	18.6
52.5°	17.4	17.4	30.2	17.4	17.4
55°	16.3	16.3	20.9	16.3	16.3
57.5°	15.1	15.1	16.3	16.3	15.1
60°	13.9	13.9	13.9	15.1	13.9
62.5°	12.8	12.8	12.8	12.8	12.8
65°	11.6	11.6	11.6	11.6	11.6
67.5°	10.4	10.4	10.4	10.4	10.4
70°	8.1	9.3	9.3	9.3	9.3
72.5°	7.0	8.1	8.1	8.1	7.0
75°	7.0	7.0	7.0	7.0	7.0
77.5°	5.8	5.8	5.8	5.8	4.6
80°	4.6	4.6	3.5	4.6	4.6
82.5°	2.3	3.5	2.3	3.5	2.3
85°	2.3	2.3	1.2	2.3	2.3
87.5°	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0

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— 0°-180° - - 45°-225° - - - - 90°-270°

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