

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: P886302

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMW-550LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-89)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMW-550LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 530.3 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

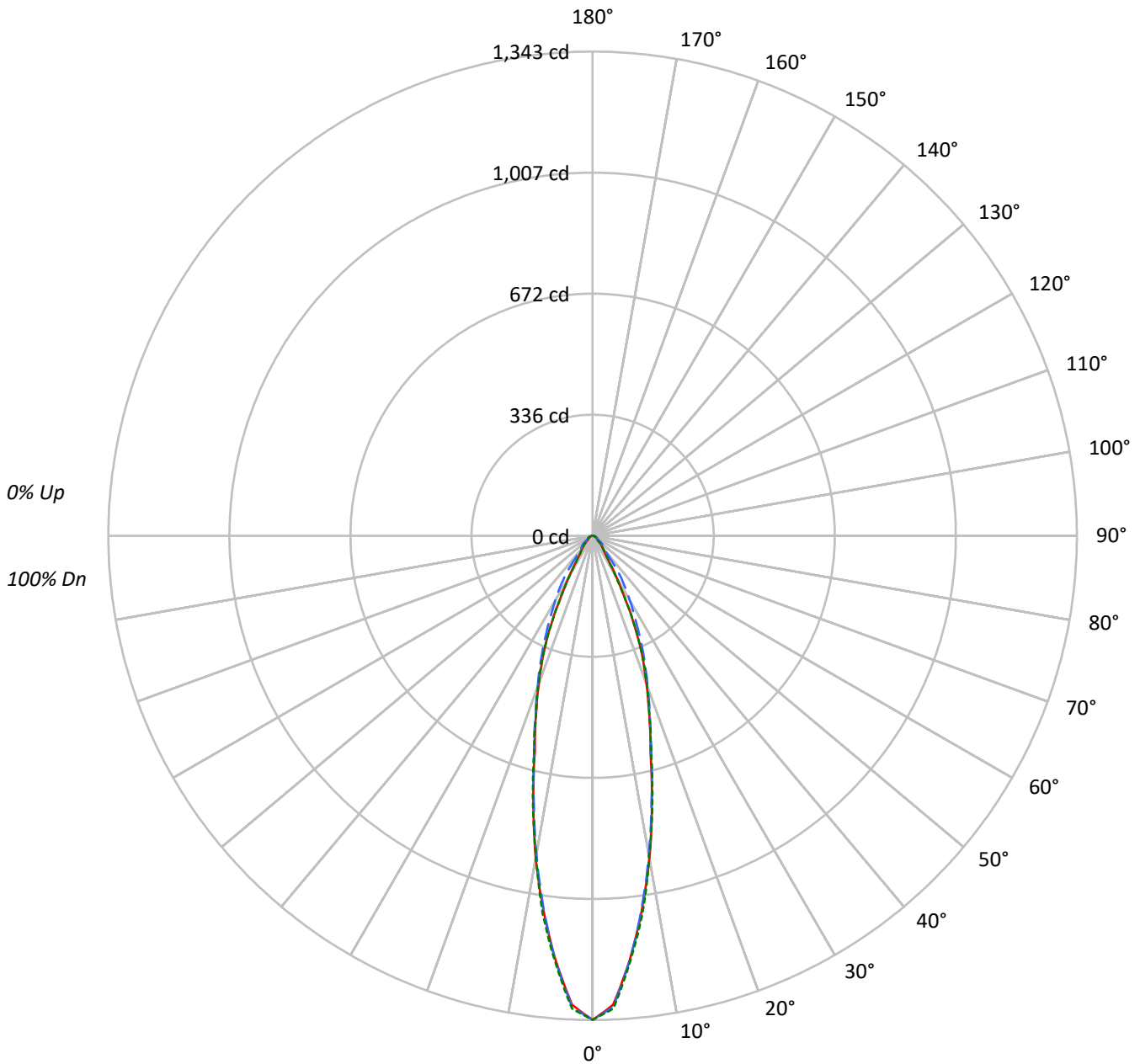
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	520295	520295	520295
5°	459540	459929	462030
10°	357238	353461	355585
15°	248524	251974	251974
20°	179710	183669	181483
25°	117835	132458	117835
30°	57363	92263	55439
35°	28809	59604	28288
40°	21600	26456	21600
45°	16988	22852	16385
50°	10972	20617	10972
55°	10809	11552	10809
60°	10772	10772	10772
65°	9811	9811	9811
70°	8497	9630	8497
75°	7935	7935	7935
80°	7141	7141	7141
85°	4891	4891	4891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 22852 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	19.6
10°-20°	176.1	33.2
20°-30°	133.6	25.2
30°-40°	56.1	10.6
40°-50°	26.5	5.0
50°-60°	15.3	2.9
60°-70°	10.9	2.0
70°-80°	5.8	1.1
80°-90°	1.9	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°	413.9	78.0
0°-40°	470.0	88.6
0°-60°	511.8	96.5
0°-90°	530.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	530.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1181	1178	1182	1181	1188	104
15°	620	622	628	627	628	176
25°	276	298	310	298	276	123
35°	61	77	126	76	60	43
45°	31	34	42	34	30	23
55°	16	16	17	16	16	14
65°	11	11	11	11	11	11
75°	5	5	5	5	5	6
85°	1	2	1	2	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.7	1342.7	1342.7	1342.7	1342.7
2.5°	1302.1	1305.3	1307.4	1312.8	1312.8
5°	1181.4	1178.2	1182.4	1181.4	1187.8
7.5°	1046.8	1047.9	1042.5	1048.9	1058.5
10°	907.9	899.4	898.3	902.6	903.7
12.5°	759.5	755.2	754.1	754.1	764.8
15°	619.5	621.7	628.1	627.0	628.1
17.5°	522.3	528.7	528.7	525.5	522.3
20°	435.8	441.1	445.4	441.1	440.1
22.5°	357.8	370.6	376.0	372.8	360.0
25°	275.6	298.0	309.8	298.0	275.6
27.5°	188.0	225.4	251.0	224.3	188.0
30°	128.2	155.9	206.2	153.8	123.9
32.5°	84.4	105.7	165.6	105.7	85.5
35°	60.9	76.9	126.0	75.8	59.8
37.5°	50.2	59.8	79.0	58.7	50.2
40°	42.7	45.9	52.3	47.0	42.7
42.5°	37.4	39.5	45.9	40.6	37.4
45°	31.0	34.2	41.7	34.2	29.9
47.5°	19.2	26.7	37.4	26.7	19.2
50°	18.2	18.2	34.2	18.2	18.2
52.5°	17.1	17.1	25.6	17.1	17.1
55°	16.0	16.0	17.1	16.0	16.0
57.5°	15.0	15.0	15.0	15.0	15.0
60°	13.9	13.9	13.9	13.9	13.9
62.5°	11.7	12.8	12.8	12.8	11.7
65°	10.7	10.7	10.7	10.7	10.7
67.5°	9.6	9.6	9.6	9.6	9.6
70°	7.5	8.5	8.5	8.5	7.5
72.5°	6.4	6.4	6.4	7.5	6.4
75°	5.3	5.3	5.3	5.3	5.3
77.5°	4.3	4.3	4.3	4.3	4.3
80°	3.2	3.2	3.2	3.2	3.2
82.5°	2.1	3.2	2.1	3.2	2.1
85°	1.1	2.1	1.1	2.1	1.1
87.5°	1.1	1.1	1.1	1.1	1.1
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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