

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: P886307

Luminaire Tested: ML204LSFL9FS1E-TIR1D25NFL-TL2SDMWB-550LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886307
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-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

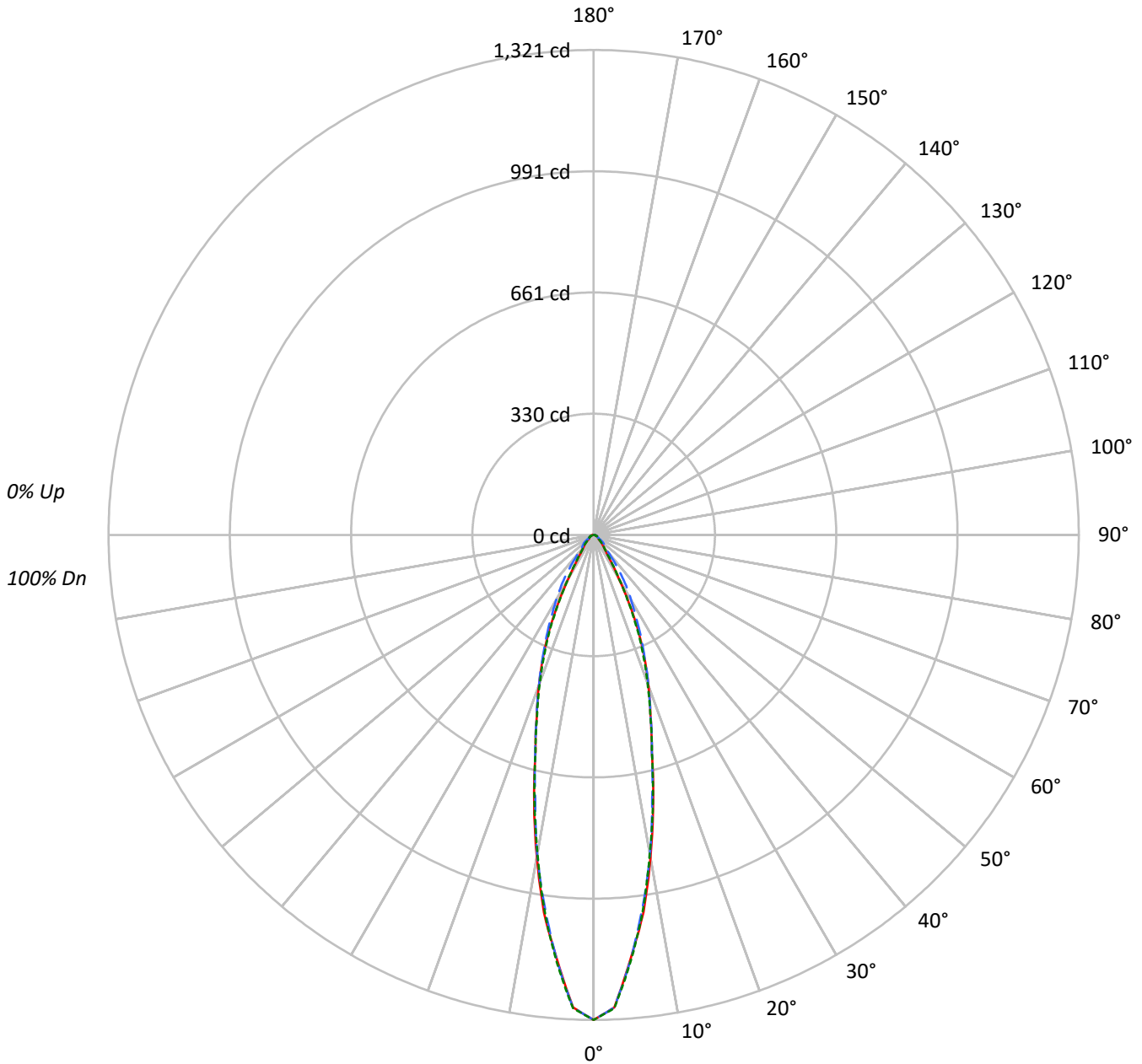
Lumens per Lamp: N/A
Luminaire Lumens: 528.7 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.46 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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°	511925	511925	511925
5°	449972	451216	452889
10°	350628	348109	346417
15°	245315	246157	245315
20°	179545	179545	176452
25°	122282	129593	118177
30°	61121	90250	63045
35°	29802	59084	31316
40°	21043	31868	21600
45°	16933	22797	15783
50°	10309	20557	10309
55°	10066	12971	10066
60°	9920	9920	9920
65°	9811	9811	9811
70°	8497	9630	9630
75°	9582	9582	9582
80°	9596	7141	9596
85°	9337	4891	9337

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 22797 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	19.3
10°-20°	172.5	32.6
20°-30°	133.2	25.2
30°-40°	59.3	11.2
40°-50°	27.3	5.2
50°-60°	15.0	2.8
60°-70°	10.6	2.0
70°-80°	6.6	1.2
80°-90°	2.1	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°	407.9	77.2
0°-40°	467.2	88.4
0°-60°	509.5	96.4
0°-90°	528.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	528.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1157	1161	1160	1162	1164	103
15°	612	615	614	615	612	173
25°	286	299	303	292	276	128
35°	63	81	125	83	66	45
45°	31	35	42	34	29	23
55°	15	15	19	15	15	13
65°	11	11	11	11	11	10
75°	6	6	6	6	6	6
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°	1321.1	1321.1	1321.1	1321.1	1321.1
2.5°	1288.0	1287.0	1288.0	1290.2	1290.2
5°	1156.8	1161.1	1160.0	1162.1	1164.3
7.5°	1037.3	1027.7	1021.3	1023.4	1029.8
10°	891.1	879.3	884.7	881.5	880.4
12.5°	749.1	737.4	735.3	738.5	744.9
15°	611.5	614.7	613.6	614.7	611.5
17.5°	515.4	514.4	515.4	515.4	512.2
20°	435.4	432.2	435.4	433.3	427.9
22.5°	360.7	365.0	362.8	363.9	351.1
25°	286.0	298.8	303.1	292.4	276.4
27.5°	207.0	230.5	245.4	225.2	200.6
30°	136.6	167.5	201.7	164.3	140.9
32.5°	92.8	115.3	164.3	117.4	95.0
35°	63.0	81.1	124.9	83.2	66.2
37.5°	50.2	60.8	89.6	61.9	51.2
40°	41.6	49.1	63.0	49.1	42.7
42.5°	36.3	40.6	48.0	40.6	37.4
45°	30.9	35.2	41.6	34.1	28.8
47.5°	22.4	27.7	37.4	26.7	23.5
50°	17.1	19.2	34.1	21.3	17.1
52.5°	16.0	16.0	27.7	16.0	16.0
55°	14.9	14.9	19.2	14.9	14.9
57.5°	13.9	13.9	14.9	14.9	13.9
60°	12.8	12.8	12.8	13.9	12.8
62.5°	11.7	11.7	11.7	11.7	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	8.5
72.5°	6.4	7.5	7.5	7.5	6.4
75°	6.4	6.4	6.4	6.4	6.4
77.5°	5.3	5.3	5.3	5.3	4.3
80°	4.3	4.3	3.2	4.3	4.3
82.5°	2.1	3.2	2.1	3.2	2.1
85°	2.1	2.1	1.1	2.1	2.1
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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