

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: P886368

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDMWB-550LM-4000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-98)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2SDMWB-550LM-4000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 674.9 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.69
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

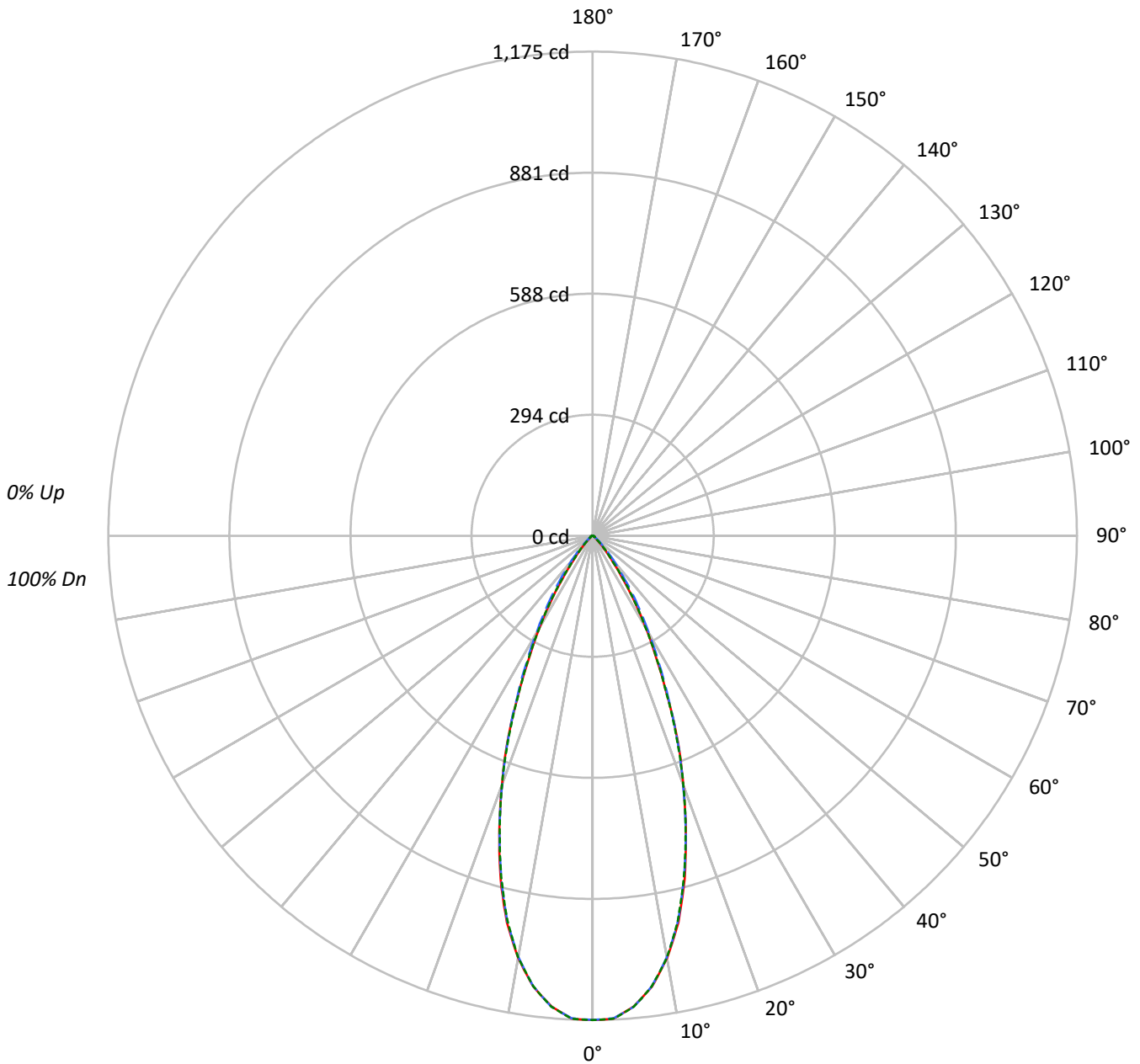
Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88								
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	85	83								
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78								
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74								
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70								
7	87	78	73	69	85	78	72	69	76	72	68	75	71	68	74	70	68	66								
8	83	74	69	65	82	74	69	65	73	68	65	72	68	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	76	68	62	59	75	67	62	59	66	62	59	66	61	58	65	61	58	57								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	113848	113848	113848
5°	111482	111589	111589
10°	102344	102128	102236
15°	86513	85961	85851
20°	66268	66155	66381
25°	45685	46401	45567
30°	29028	30639	28659
35°	15019	18674	15540
40°	6981	10332	7259
45°	3178	4987	3329
50°	1492	2668	1658
55°	1115	1486	1115
60°	1066	1066	1066
65°	1009	1009	1009
70°	935	1246	935
75°	1235	1235	1235
80°	1227	1227	1227
85°	1223	1223	1223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 4987 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.1	15.7
10°-20°	235.8	34.9
20°-30°	199.2	29.5
30°-40°	92.8	13.7
40°-50°	25.1	3.7
50°-60°	7.2	1.1
60°-70°	4.7	0.7
70°-80°	3.2	0.5
80°-90°	0.9	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°	541.1	80.2
0°-40°	633.9	93.9
0°-60°	666.2	98.7
0°-90°	674.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	674.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1146	1149	1148	1148	1148	106
15°	863	860	857	856	856	236
25°	427	435	434	435	426	198
35°	127	142	158	145	131	85
45°	23	29	36	29	24	20
55°	7	8	9	8	7	6
65°	4	4	4	4	4	5
75°	3	3	3	3	3	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°	1175.2	1175.2	1175.2	1175.2	1175.2
2.5°	1172.9	1171.8	1171.8	1171.8	1172.9
5°	1146.4	1148.6	1147.5	1147.5	1147.5
7.5°	1103.4	1102.3	1102.3	1102.3	1102.3
10°	1040.4	1039.3	1038.2	1042.6	1039.3
12.5°	960.9	960.9	957.6	958.7	955.4
15°	862.6	860.4	857.1	856.0	856.0
17.5°	752.1	752.1	752.1	747.7	749.9
20°	642.8	646.1	641.7	646.1	643.9
22.5°	541.2	537.9	537.9	535.7	534.6
25°	427.4	435.2	434.1	435.2	426.3
27.5°	333.5	340.2	347.9	343.5	336.9
30°	259.5	262.9	273.9	265.1	256.2
32.5°	187.8	199.9	211.0	202.1	192.2
35°	127.0	142.5	157.9	144.7	131.4
37.5°	82.8	95.0	112.7	97.2	85.0
40°	55.2	60.7	81.7	63.0	57.4
42.5°	37.6	43.1	56.3	43.1	39.8
45°	23.2	28.7	36.4	28.7	24.3
47.5°	12.1	17.7	26.5	17.7	14.4
50°	9.9	11.0	17.7	11.0	11.0
52.5°	7.7	8.8	11.0	8.8	8.8
55°	6.6	7.7	8.8	7.7	6.6
57.5°	5.5	6.6	6.6	6.6	5.5
60°	5.5	5.5	5.5	5.5	5.5
62.5°	5.5	5.5	5.5	5.5	5.5
65°	4.4	4.4	4.4	4.4	4.4
67.5°	4.4	4.4	4.4	4.4	4.4
70°	3.3	4.4	4.4	4.4	3.3
72.5°	3.3	3.3	3.3	3.3	3.3
75°	3.3	3.3	3.3	3.3	3.3
77.5°	2.2	2.2	2.2	2.2	2.2
80°	2.2	2.2	2.2	2.2	2.2
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1
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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