

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: P886426

Luminaire Tested: ML204LSFL9FS1E-TIR1D55WFL-TL2SDMWB-550LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886426
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-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 55D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

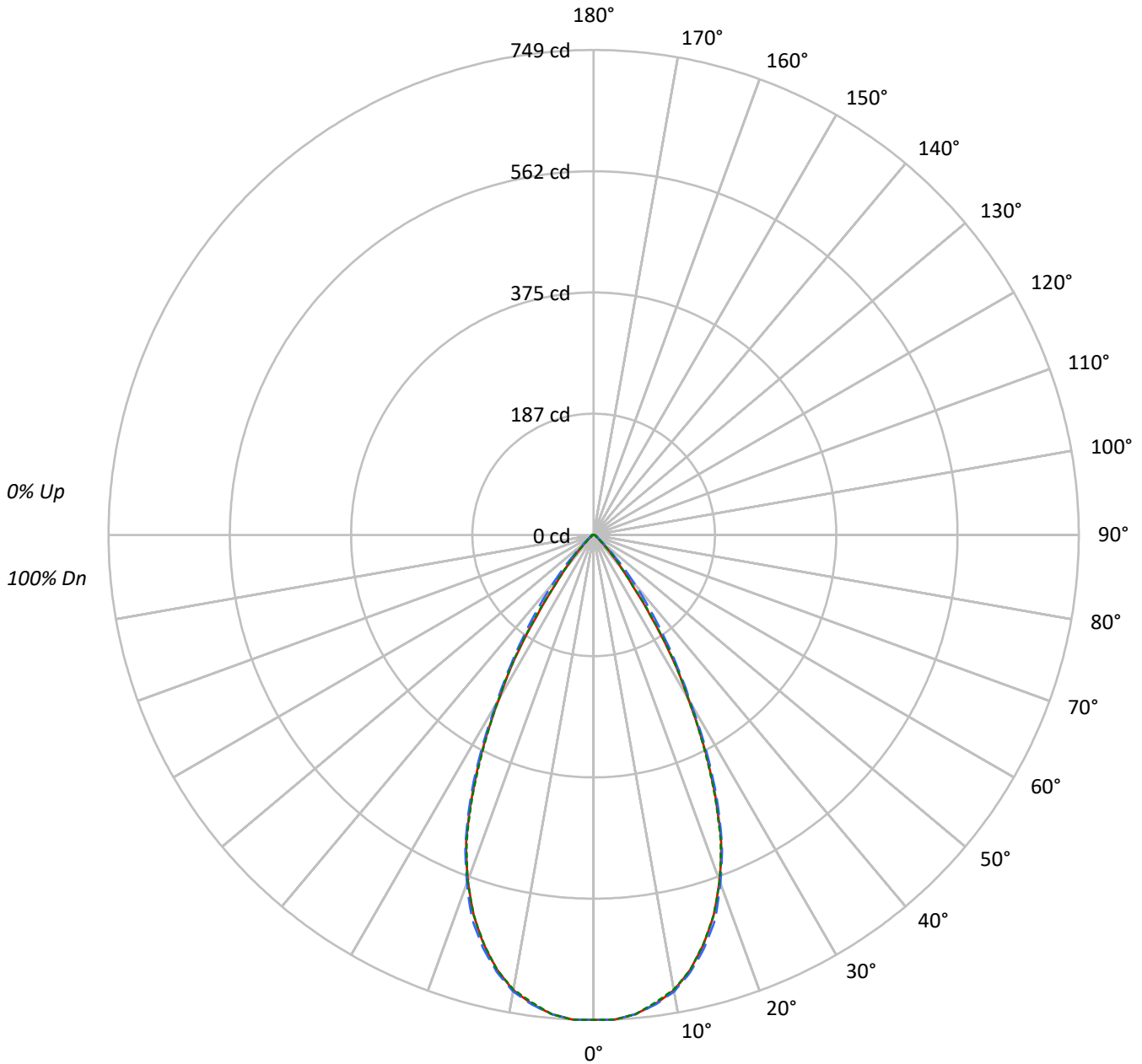
Lumens per Lamp: N/A
Luminaire Lumens: 604.7 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Spacing Criteria (0/90/45): 0.87 / 0.87 / 0.83
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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									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	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°	290276	290276	290276
5°	288973	288973	288973
10°	280903	281730	280510
15°	262766	264852	262364
20°	234349	236040	234349
25°	189964	192615	188639
30°	130386	134055	131281
35°	72802	86521	76256
40°	33436	48612	33993
45°	14741	22085	14741
50°	6872	9947	6872
55°	4189	5607	4189
60°	3177	4030	3177
65°	3759	3759	3759
70°	3512	3512	3512
75°	3144	3144	3144
80°	4686	4686	4686
85°	4446	4446	4446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 22085 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	11.6
10°-20°	182.8	30.2
20°-30°	200.8	33.2
30°-40°	108.6	18.0
40°-50°	28.2	4.7
50°-60°	7.0	1.2
60°-70°	4.0	0.7
70°-80°	2.6	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°	453.5	75.0
0°-40°	562.1	93.0
0°-60°	597.3	98.8
0°-90°	604.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	604.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	743	742	743	742	743	70
15°	655	658	660	655	654	182
25°	444	447	450	448	441	200
35°	154	175	183	174	161	101
45°	27	30	40	31	27	24
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°	749.1	749.1	749.1	749.1	749.1
2.5°	749.1	749.1	749.1	748.0	749.1
5°	742.9	741.8	742.9	741.8	742.9
7.5°	730.5	731.5	731.5	731.5	728.4
10°	713.9	713.9	716.0	713.9	712.9
12.5°	688.1	690.2	691.2	687.1	688.1
15°	655.0	658.1	660.2	655.0	654.0
17.5°	615.8	617.8	623.0	619.9	615.8
20°	568.3	572.4	572.4	570.3	568.3
22.5°	514.5	517.6	517.6	515.6	512.5
25°	444.3	447.4	450.5	448.4	441.2
27.5°	369.9	368.8	377.1	371.9	366.8
30°	291.4	295.5	299.6	295.5	293.4
32.5°	227.3	233.5	238.7	234.5	229.4
35°	153.9	174.6	182.9	173.6	161.2
37.5°	99.2	115.7	134.3	115.7	101.3
40°	66.1	72.3	96.1	74.4	67.2
42.5°	44.4	48.6	64.1	49.6	45.5
45°	26.9	30.0	40.3	31.0	26.9
47.5°	16.5	18.6	24.8	18.6	16.5
50°	11.4	13.4	16.5	13.4	11.4
52.5°	8.3	9.3	11.4	9.3	8.3
55°	6.2	7.2	8.3	7.2	6.2
57.5°	5.2	5.2	6.2	5.2	5.2
60°	4.1	5.2	5.2	5.2	4.1
62.5°	4.1	4.1	4.1	4.1	4.1
65°	4.1	4.1	4.1	4.1	4.1
67.5°	3.1	4.1	4.1	4.1	3.1
70°	3.1	3.1	3.1	3.1	3.1
72.5°	3.1	3.1	3.1	3.1	3.1
75°	2.1	2.1	2.1	2.1	2.1
77.5°	2.1	2.1	2.1	2.1	2.1
80°	2.1	2.1	2.1	2.1	2.1
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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report





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

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