

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: P886369

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDMWB-550LM-5000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886369
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-5000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE WHITE BAFFLED TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

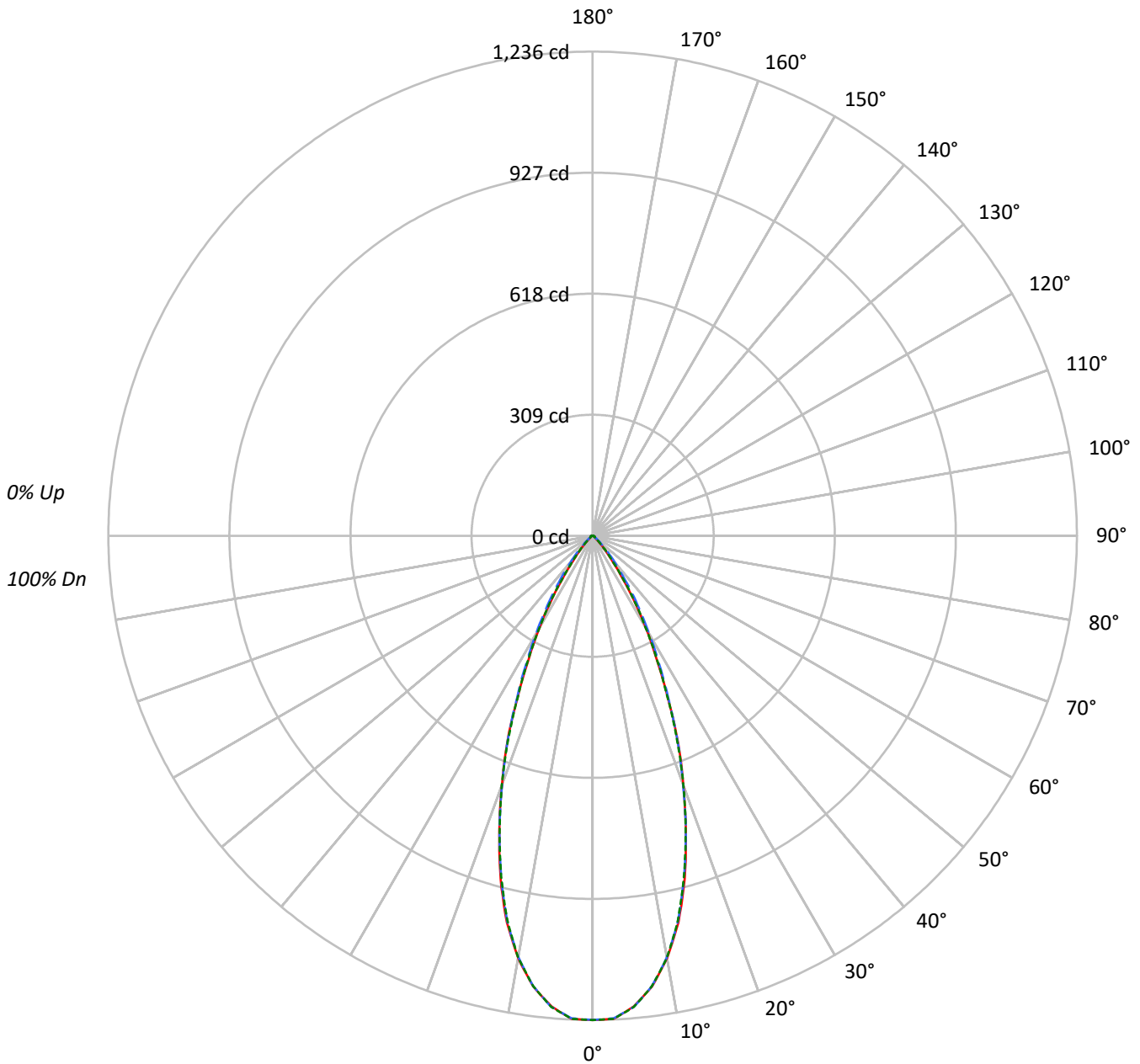
Lumens per Lamp: N/A
Luminaire Lumens: 710.1 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.69
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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									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°	119767	119767	119767
5°	117288	117404	117404
10°	107676	107440	107558
15°	91016	90434	90314
20°	69722	69598	69835
25°	48069	48806	47940
30°	30550	32239	30158
35°	15800	19655	16356
40°	7347	10876	7638
45°	3343	5247	3507
50°	1582	2803	1748
55°	1182	1571	1182
60°	1124	1124	1124
65°	1054	1054	1054
70°	991	1303	991
75°	1310	1310	1310
80°	1283	1283	1283
85°	1334	1334	1334

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5247 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	15.7
10°-20°	248.1	34.9
20°-30°	209.6	29.5
30°-40°	97.6	13.7
40°-50°	26.4	3.7
50°-60°	7.6	1.1
60°-70°	5.0	0.7
70°-80°	3.3	0.5
80°-90°	1.0	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°	569.2	80.2
0°-40°	666.9	93.9
0°-60°	700.8	98.7
0°-90°	710.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1236	1236	1236	1236	1236	
5°	1206	1208	1207	1207	1207	112
15°	908	905	902	900	900	249
25°	450	458	457	458	448	208
35°	134	150	166	152	138	89
45°	24	30	38	30	26	21
55°	7	8	9	8	7	6
65°	5	5	5	5	5	5
75°	4	4	4	4	4	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°	1236.3	1236.3	1236.3	1236.3	1236.3
2.5°	1234.0	1232.8	1232.8	1232.8	1234.0
5°	1206.1	1208.4	1207.3	1207.3	1207.3
7.5°	1160.8	1159.6	1159.6	1159.6	1159.6
10°	1094.6	1093.4	1092.2	1096.9	1093.4
12.5°	1010.9	1010.9	1007.4	1008.6	1005.1
15°	907.5	905.2	901.7	900.5	900.5
17.5°	791.3	791.3	791.3	786.6	789.0
20°	676.3	679.7	675.1	679.7	677.4
22.5°	569.4	565.9	565.9	563.5	562.4
25°	449.7	457.8	456.6	457.8	448.5
27.5°	350.9	357.9	366.0	361.4	354.4
30°	273.1	276.5	288.2	278.9	269.6
32.5°	197.5	210.3	221.9	212.6	202.2
35°	133.6	149.9	166.2	152.2	138.3
37.5°	87.1	99.9	118.5	102.3	89.5
40°	58.1	63.9	86.0	66.2	60.4
42.5°	39.5	45.3	59.3	45.3	41.8
45°	24.4	30.2	38.3	30.2	25.6
47.5°	12.8	18.6	27.9	18.6	15.1
50°	10.5	11.6	18.6	11.6	11.6
52.5°	8.1	9.3	11.6	9.3	9.3
55°	7.0	8.1	9.3	8.1	7.0
57.5°	5.8	7.0	7.0	7.0	5.8
60°	5.8	5.8	5.8	5.8	5.8
62.5°	5.8	5.8	5.8	5.8	5.8
65°	4.6	4.6	4.6	4.6	4.6
67.5°	4.6	4.6	4.6	4.6	4.6
70°	3.5	4.6	4.6	4.6	3.5
72.5°	3.5	3.5	3.5	3.5	3.5
75°	3.5	3.5	3.5	3.5	3.5
77.5°	2.3	2.3	2.3	2.3	2.3
80°	2.3	2.3	2.3	2.3	2.3
82.5°	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2
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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