

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: P886352

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDMB-550LM-3500K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-97)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2SDMB-550LM-3500K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, MATTE BLACK TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

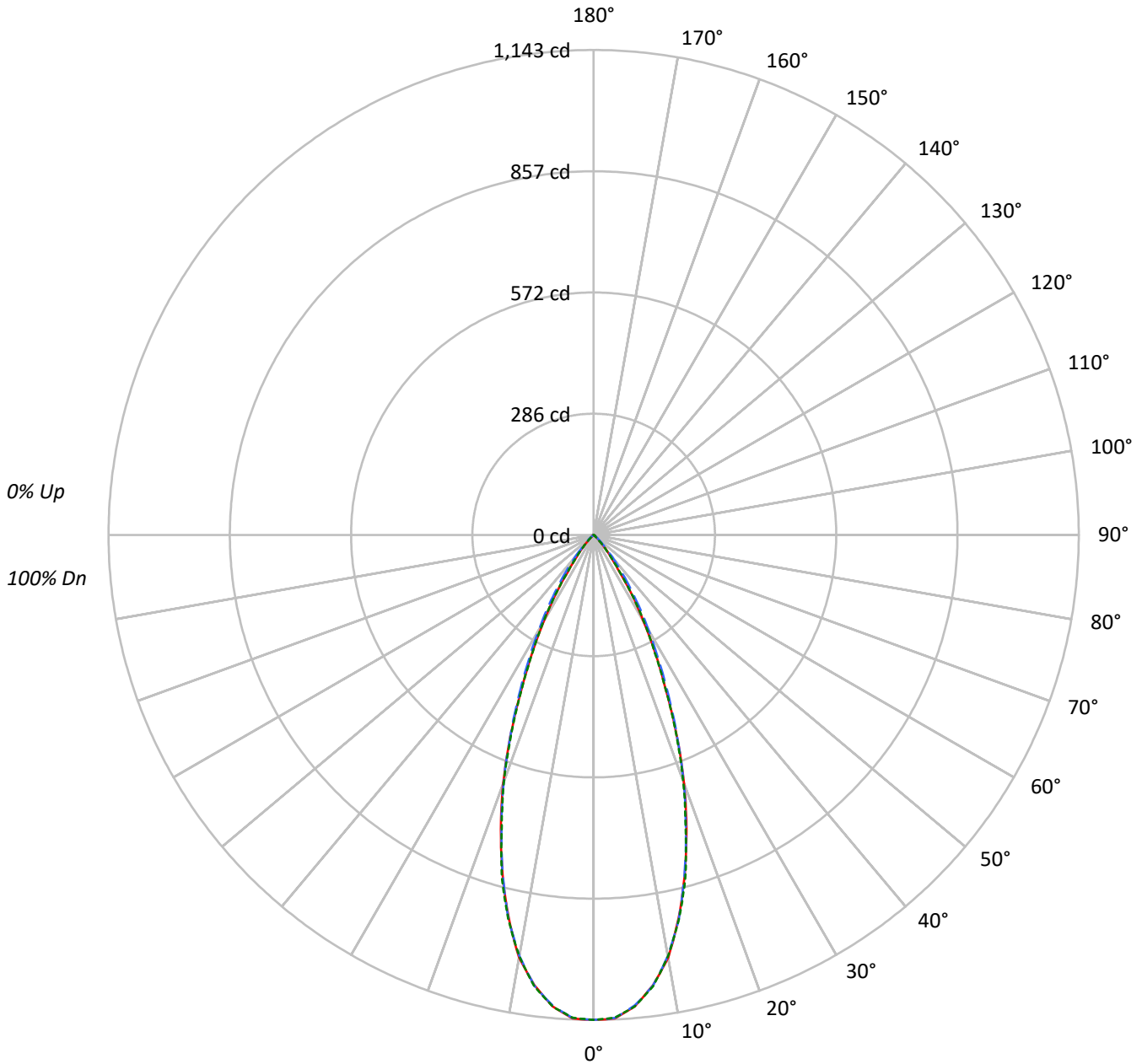
Lumens per Lamp: N/A
Luminaire Lumens: 620.3 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

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	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	112	109	107	112	110	108	106	105	104	102	102	101	99	98	97	97	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90								
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	85								
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80								
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76								
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72								
7	88	80	75	71	87	79	74	71	78	74	70	77	73	70	76	72	70	68								
8	85	76	71	67	83	76	71	67	75	70	67	74	70	67	73	69	66	65								
9	81	73	67	64	80	72	67	64	71	67	64	71	66	63	70	66	63	62								
10	78	69	64	61	77	69	64	61	68	64	61	68	63	61	67	63	60	59								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	110729	110729	110729
5°	108458	108244	108458
10°	99511	99098	99196
15°	83143	83032	83785
20°	64206	63990	63660
25°	42938	44424	42820
30°	26165	28804	26646
35°	12382	16675	12761
40°	5805	8650	5539
45°	1754	3507	1754
50°	482	1281	482
55°	186	186	186
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 3507 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	16.6
10°-20°	227.8	36.7
20°-30°	188.7	30.4
30°-40°	82.2	13.3
40°-50°	17.2	2.8
50°-60°	1.4	0.2
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	519.6	83.8
0°-40°	601.8	97.0
0°-60°	620.3	100.0
0°-90°	620.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	620.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1115	1116	1113	1114	1115	103
15°	829	827	828	832	835	228
25°	402	412	416	407	401	186
35°	105	124	141	123	108	73
45°	13	19	26	19	13	13
55°	1	1	1	1	1	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1143.0	1143.0	1143.0	1143.0	1143.0
2.5°	1140.9	1139.8	1139.8	1139.8	1138.8
5°	1115.3	1116.3	1113.1	1114.2	1115.3
7.5°	1070.4	1070.4	1071.5	1073.6	1072.5
10°	1011.6	1007.4	1007.4	1009.5	1008.4
12.5°	925.1	927.2	927.2	931.5	928.3
15°	829.0	826.8	827.9	832.2	835.4
17.5°	727.5	726.4	722.1	723.2	720.0
20°	622.8	620.7	620.7	616.4	617.5
22.5°	511.7	514.9	512.8	513.8	507.4
25°	401.7	412.3	415.6	407.0	400.6
27.5°	313.0	318.3	330.1	321.5	309.8
30°	233.9	244.6	257.5	246.8	238.2
32.5°	169.9	183.7	195.5	185.9	170.9
35°	104.7	123.9	141.0	122.8	107.9
37.5°	68.4	79.1	100.4	78.0	68.4
40°	45.9	50.2	68.4	51.3	43.8
42.5°	27.8	32.0	40.6	33.1	26.7
45°	12.8	19.2	25.6	19.2	12.8
47.5°	5.3	8.5	17.1	7.5	5.3
50°	3.2	4.3	8.5	4.3	3.2
52.5°	2.1	2.1	3.2	2.1	2.1
55°	1.1	1.1	1.1	1.1	1.1
57.5°	0.0	0.0	1.1	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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



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Scaled Data Report





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

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