

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: P886371

Luminaire Tested: ML204LSFL9FS1E-TIR1D40FL-TL2SDSL-550LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-96)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFL9FS1E-TIR1D40FL-TL2SDSL-550LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 40D TIR, METALLIC SILVER TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

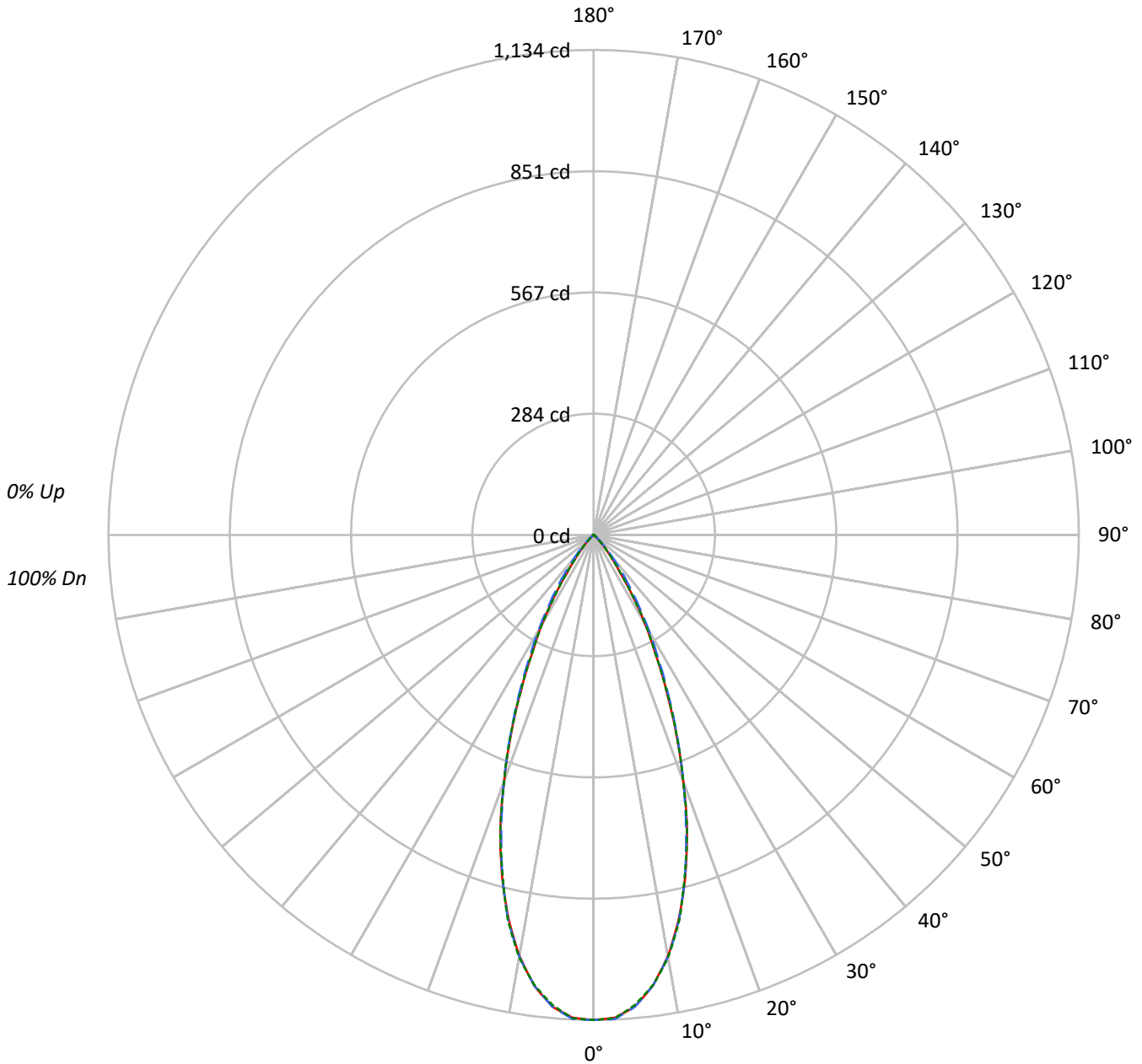
Lumens per Lamp: N/A
Luminaire Lumens: 621.4 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.68
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.9
Input Voltage (V): NR
Input Current (A_{in}): 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	109	107	106	105	104	102	102	100	99	98	97	96	95								
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89								
3	105	99	94	91	103	97	93	90	95	91	89	93	90	87	90	88	86	85								
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80								
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76								
6	92	84	79	75	90	83	78	74	82	77	74	80	76	74	79	76	73	72								
7	88	80	74	71	87	79	74	70	78	73	70	77	73	70	76	72	69	68								
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65								
9	81	72	67	64	80	72	67	64	71	66	63	70	66	63	69	66	63	62								
10	78	69	64	61	77	69	64	61	68	63	60	67	63	60	67	63	60	59								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	109876	109876	109876
5°	107680	107680	107281
10°	98350	98458	98655
15°	82962	82752	82541
20°	63103	63206	63103
25°	42991	44210	43216
30°	26948	28681	27182
35°	12843	16876	13328
40°	6146	8625	6020
45°	2124	3685	2124
50°	784	1402	784
55°	355	355	355
60°	194	194	194
65°	229	229	229
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: 3685 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	16.4
10°-20°	226.4	36.4
20°-30°	188.1	30.3
30°-40°	83.2	13.4
40°-50°	18.6	3.0
50°-60°	2.3	0.4
60°-70°	0.7	0.1
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°	516.6	83.1
0°-40°	599.8	96.5
0°-60°	620.7	99.9
0°-90°	621.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	621.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1134	1134	1134	1134	1134	
5°	1107	1107	1107	1106	1103	102
15°	827	822	825	822	823	227
25°	402	410	414	412	404	185
35°	109	126	143	126	113	76
45°	16	21	27	20	16	15
55°	2	2	2	2	2	2
65°	1	1	1	1	1	1
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°	1134.2	1134.2	1134.2	1134.2	1134.2
2.5°	1130.1	1131.1	1133.2	1130.1	1131.1
5°	1107.3	1107.3	1107.3	1106.3	1103.2
7.5°	1062.9	1061.9	1062.9	1060.8	1061.9
10°	999.8	1002.9	1000.9	1000.9	1002.9
12.5°	919.2	928.5	922.3	921.2	924.3
15°	827.2	822.0	825.1	822.0	823.0
17.5°	725.8	715.5	717.6	721.7	725.8
20°	612.1	614.2	613.1	614.2	612.1
22.5°	505.6	511.8	509.7	509.7	507.7
25°	402.2	410.5	413.6	411.5	404.3
27.5°	312.2	317.4	328.8	318.5	311.2
30°	240.9	246.1	256.4	245.0	243.0
32.5°	172.7	184.0	194.4	183.0	169.6
35°	108.6	126.1	142.7	126.1	112.7
37.5°	71.3	80.6	102.4	80.6	73.4
40°	48.6	53.8	68.2	52.7	47.6
42.5°	30.0	35.2	43.4	34.1	30.0
45°	15.5	20.7	26.9	19.6	15.5
47.5°	8.3	9.3	17.6	10.3	7.2
50°	5.2	5.2	9.3	5.2	5.2
52.5°	3.1	3.1	4.1	3.1	3.1
55°	2.1	2.1	2.1	2.1	2.1
57.5°	1.0	1.0	2.1	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	0.0	0.0	1.0
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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