

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: P886461

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2SDSL-400LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-90)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D25NFL-TL2SDSL-400LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 369.4 lumens
Efficiency: N/A
Efficacy: 59.6 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.54
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

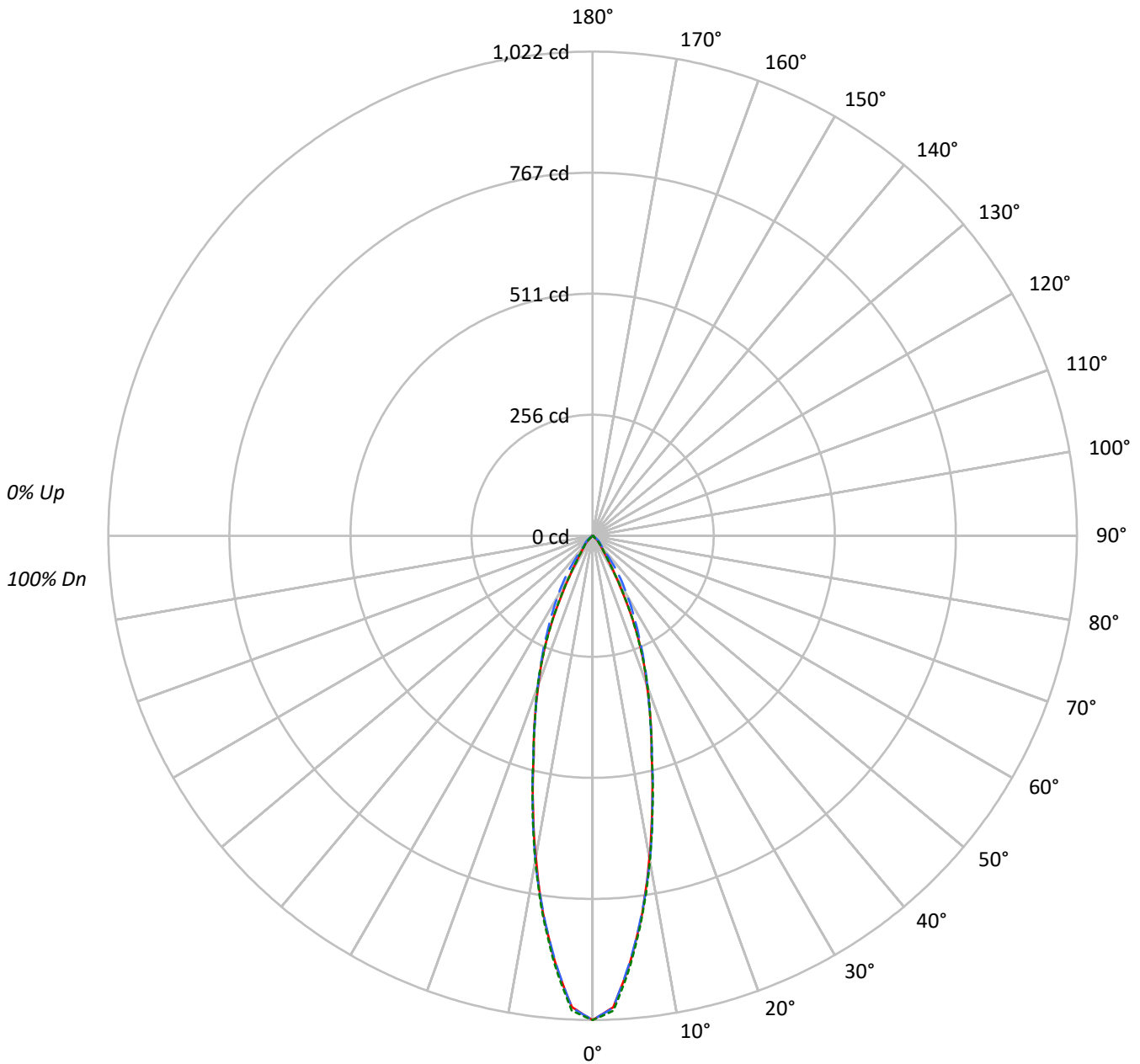
Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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			100																
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95			95																
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90			90																
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86			86																
4	101	94	90	86	99	93	89	85	91	87	84	89	86	84	87	85	83	81			81																
5	97	90	85	81	95	89	84	81	87	83	80	85	82	79	84	81	79	77			77																
6	93	85	80	77	92	85	80	76	83	79	76	82	78	75	81	77	75	74			74																
7	89	82	76	73	88	81	76	73	80	75	72	79	75	72	78	74	72	70			70																
8	86	78	73	69	85	77	73	69	76	72	69	75	72	69	75	71	68	67			67																
9	83	75	70	66	82	74	70	66	73	69	66	73	69	66	72	68	66	65			65																
10	80	72	67	64	79	71	67	63	71	66	63	70	66	63	69	66	63	62			62																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	396102	396102	396102
5°	351871	350976	354283
10°	271578	273742	274018
15°	192762	193724	193724
20°	137855	139133	140081
25°	89659	97612	89018
30°	41568	65461	41568
35°	19395	39168	19773
40°	12899	15277	12545
45°	6795	11892	7234
50°	2351	8862	2351
55°	1554	2094	1554
60°	1162	1162	1162
65°	734	734	734
70°	906	906	906
75°	1198	0	1198
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 11892 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.7	21.6
10°-20°	135.3	36.6
20°-30°	99.9	27.0
30°-40°	37.8	10.2
40°-50°	12.5	3.4
50°-60°	2.8	0.8
60°-70°	0.9	0.2
70°-80°	0.4	0.1
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°	314.9	85.2
0°-40°	352.7	95.5
0°-60°	368.0	99.6
0°-90°	369.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	369.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	905	902	902	906	911	80
15°	480	480	483	482	483	135
25°	210	222	228	220	208	94
35°	41	51	83	52	42	29
45°	12	16	22	16	13	10
55°	2	2	3	2	2	2
65°	1	1	1	1	1	1
75°	1	1	0	1	1	1
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°	1022.2	1022.2	1022.2	1022.2	1022.2
2.5°	995.9	995.9	996.7	999.0	1003.6
5°	904.6	902.3	902.3	906.1	910.8
7.5°	802.4	801.7	800.9	800.9	806.3
10°	690.2	694.1	695.7	688.7	696.4
12.5°	581.1	574.9	583.5	578.8	585.0
15°	480.5	480.5	482.9	482.1	482.9
17.5°	405.5	406.3	402.4	403.9	403.2
20°	334.3	336.6	337.4	338.2	339.7
22.5°	274.7	277.8	280.1	278.6	272.4
25°	209.7	222.1	228.3	220.5	208.2
27.5°	140.8	164.0	185.7	166.4	145.5
30°	92.9	113.0	146.3	112.2	92.9
32.5°	60.4	74.3	114.5	73.5	59.6
35°	41.0	51.1	82.8	51.8	41.8
37.5°	31.7	36.4	49.5	36.4	31.7
40°	25.5	26.3	30.2	27.1	24.8
42.5°	20.1	20.9	24.8	20.9	19.3
45°	12.4	16.3	21.7	16.3	13.2
47.5°	5.4	9.3	17.8	9.3	5.4
50°	3.9	3.9	14.7	3.9	3.9
52.5°	3.1	3.1	9.3	3.1	3.1
55°	2.3	2.3	3.1	2.3	2.3
57.5°	2.3	1.5	1.5	1.5	2.3
60°	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	0.8	0.8	0.8	1.5
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.8	0.0	0.8	0.8
75°	0.8	0.8	0.0	0.8	0.8
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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