

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: P886463

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2SDSLB-400LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-93)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D25NFL-TL2SDSLB-400LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, METALLIC SILVER BAFFLED TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 371.0 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Spacing Criteria (0/90/45): 0.47 / 0.47 / 0.55
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

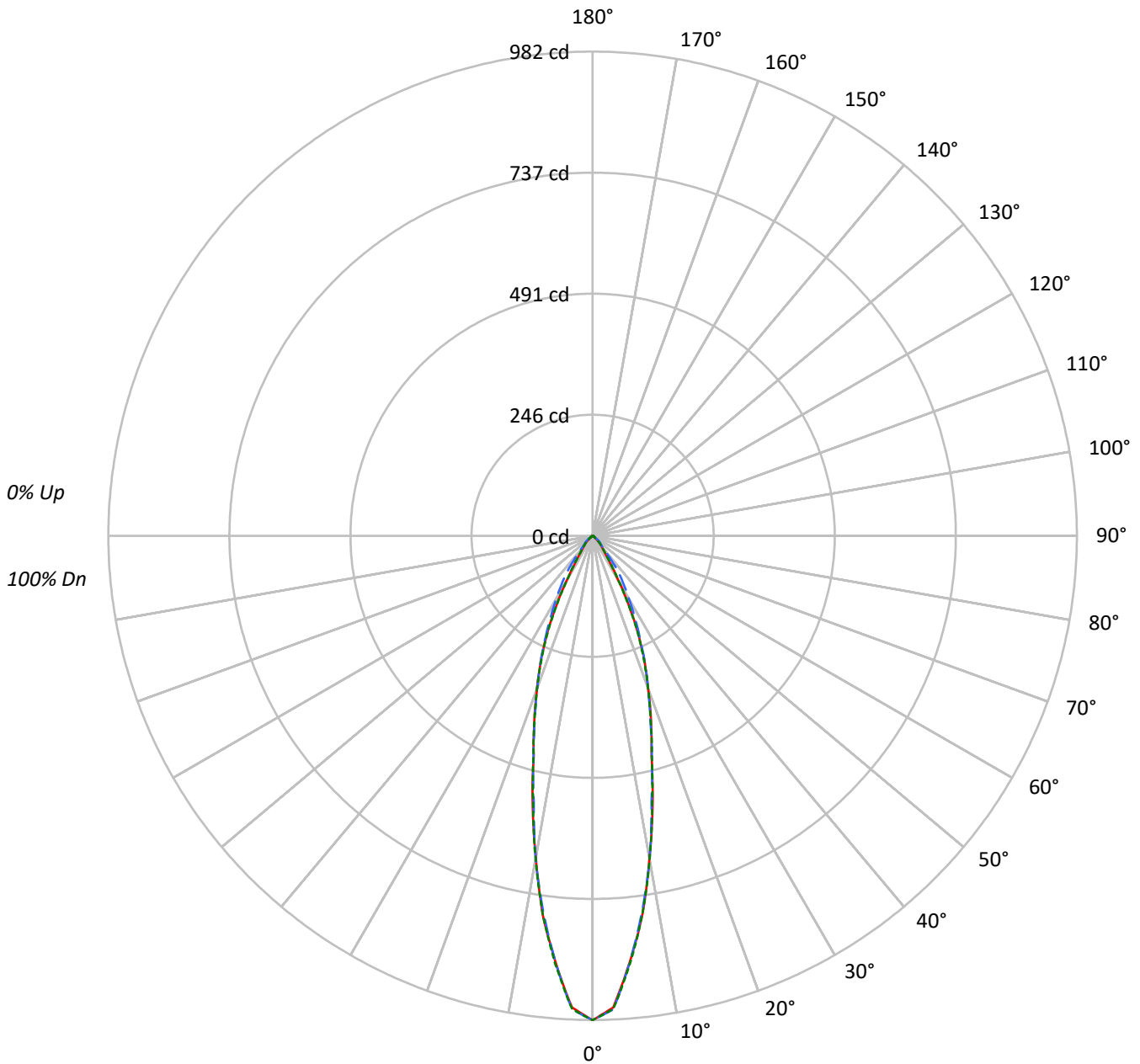
Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	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	99	93	88	85	90	87	84	89	85	83	87	84	82	80								
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76								
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	73								
7	89	80	75	72	87	80	75	71	79	74	71	78	74	71	76	73	70	69								
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66								
9	82	74	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63								
10	79	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	380641	380641	380641
5°	337206	337206	338723
10°	261033	261623	262213
15°	185059	185982	185982
20°	135669	135339	135669
25°	92994	95987	92011
30°	46400	65461	46758
35°	21618	43189	23085
40°	14467	19576	14467
45°	9755	12275	9316
50°	3738	9826	3738
55°	2635	3108	2635
60°	1782	1162	1782
65°	1375	734	1375
70°	906	906	906
75°	1198	1198	1198
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12275 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	20.6
10°-20°	130.3	35.1
20°-30°	100.8	27.2
30°-40°	42.4	11.4
40°-50°	14.9	4.0
50°-60°	3.9	1.1
60°-70°	1.3	0.4
70°-80°	0.7	0.2
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°	307.7	83.0
0°-40°	350.1	94.4
0°-60°	368.9	99.5
0°-90°	371.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	371.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	867	871	867	868	871	77
15°	461	464	464	465	464	131
25°	218	224	224	224	215	97
35°	46	57	91	58	49	33
45°	18	19	22	19	17	13
55°	4	3	5	3	4	4
65°	2	2	1	2	2	2
75°	1	1	1	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°	982.3	982.3	982.3	982.3	982.3
2.5°	957.5	955.9	961.4	961.4	960.6
5°	866.9	870.8	866.9	868.5	870.8
7.5°	774.8	771.7	768.6	769.4	774.0
10°	663.4	663.4	664.9	664.9	666.4
12.5°	562.0	552.7	551.9	557.3	557.3
15°	461.3	464.4	463.6	465.2	463.6
17.5°	393.2	389.3	388.6	391.7	390.9
20°	329.0	330.5	328.2	329.7	329.0
22.5°	274.8	274.0	274.8	275.6	270.1
25°	217.5	224.5	224.5	223.7	215.2
27.5°	157.9	174.9	181.9	171.8	155.6
30°	103.7	126.9	146.3	125.4	104.5
32.5°	68.9	84.4	117.7	85.1	70.4
35°	45.7	57.3	91.3	58.1	48.8
37.5°	34.8	41.8	63.5	41.0	35.6
40°	28.6	30.2	38.7	31.0	28.6
42.5°	23.2	24.0	27.1	24.0	23.2
45°	17.8	19.4	22.4	18.6	17.0
47.5°	8.5	13.2	19.4	12.4	10.8
50°	6.2	5.4	16.3	7.7	6.2
52.5°	4.6	3.9	11.6	3.9	4.6
55°	3.9	3.1	4.6	3.1	3.9
57.5°	3.1	2.3	2.3	2.3	3.1
60°	2.3	2.3	1.5	2.3	2.3
62.5°	2.3	1.5	1.5	1.5	2.3
65°	1.5	1.5	0.8	1.5	1.5
67.5°	1.5	0.8	0.8	0.8	1.5
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.8	0.8	0.8	0.8	0.8
75°	0.8	0.8	0.8	0.8	0.8
77.5°	0.8	0.8	0.0	0.8	0.8
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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