

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: P886453

Luminaire Tested: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMB-400LM-3000K

Issue Date: 6/20/2024

Test Information

Test Method: LM-79-2019
Report Number: P886453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2402-314-91)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 6/20/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML204LSFLD2W1E-TIR1D25NFL-TL2SDMB-400LM-3000K
Description: 2IN SQUARE ML FLEX, SELECTABLE CCT, WITH 25D TIR, MATTE BLACK TRIM
Light Source: (1) D2W LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

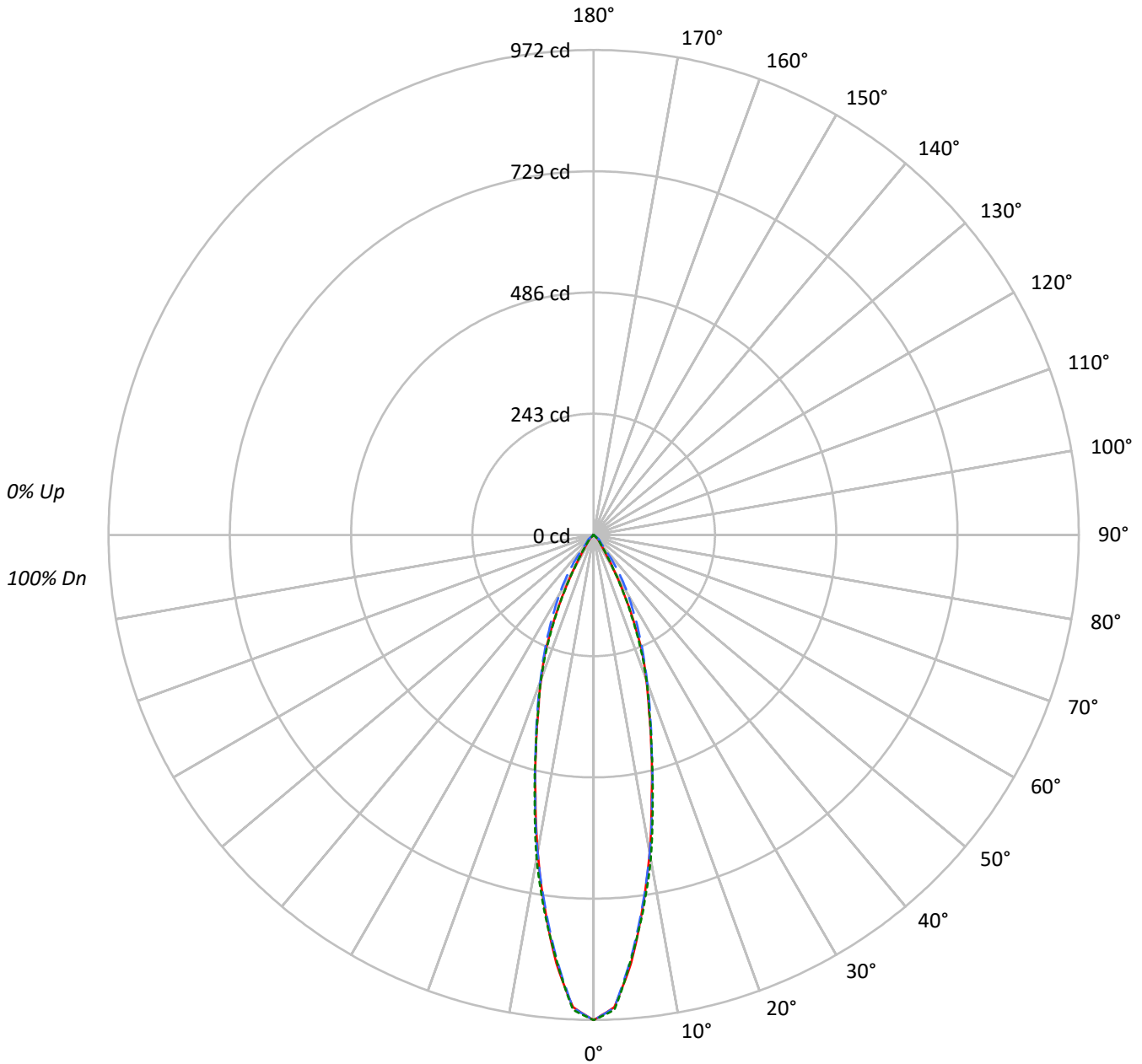
Lumens per Lamp: N/A
Luminaire Lumens: 335.1 lumens
Efficiency: N/A
Efficacy: 54.1 lumens/watt
Spacing Criteria (0/90/45): 0.46 / 0.46 / 0.53
Luminous Opening: Rectangular (W 0.17' x L: 0.17' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	376804	376804	376804
5°	335184	331566	332772
10°	254068	254658	259223
15°	179202	180125	179844
20°	127051	128659	127381
25°	79440	90685	77132
30°	35348	61300	34632
35°	14996	35526	15753
40°	9004	14113	9004
45°	5096	9755	4220
50°	482	7475	482
55°	0	1554	540
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: 9755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.2	22.4
10°-20°	125.4	37.4
20°-30°	91.0	27.2
30°-40°	32.8	9.8
40°-50°	9.6	2.9
50°-60°	1.2	0.4
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°	291.6	87.0
0°-40°	324.4	96.8
0°-60°	335.1	100.0
0°-90°	335.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	335.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	972	972	972	972	972	
5°	862	854	852	859	856	75
15°	447	447	449	444	448	125
25°	186	205	212	199	180	85
35°	32	43	75	43	33	23
45°	9	12	18	12	8	6
55°	0	1	2	1	1	0
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°	972.4	972.4	972.4	972.4	972.4
2.5°	947.6	945.3	948.4	949.1	953.0
5°	861.7	853.9	852.4	859.3	855.5
7.5°	752.5	753.3	749.4	757.9	758.7
10°	645.7	646.4	647.2	650.3	658.8
12.5°	537.3	539.6	540.4	538.8	545.8
15°	446.7	446.7	449.0	443.6	448.3
17.5°	368.5	371.6	375.5	370.8	370.1
20°	308.1	310.4	312.0	311.2	308.9
22.5°	253.2	257.8	259.4	253.2	244.6
25°	185.8	205.2	212.1	199.0	180.4
27.5°	126.2	152.5	170.3	147.1	124.6
30°	79.0	101.4	137.0	101.4	77.4
32.5°	48.0	63.5	105.3	65.8	50.3
35°	31.7	43.4	75.1	43.4	33.3
37.5°	23.2	30.2	44.1	30.2	24.0
40°	17.8	20.9	27.9	21.7	17.8
42.5°	13.9	16.3	20.9	16.3	13.2
45°	9.3	12.4	17.8	12.4	7.7
47.5°	1.5	7.0	15.5	6.2	3.9
50°	0.8	0.8	12.4	2.3	0.8
52.5°	0.8	0.8	7.0	0.8	0.8
55°	0.0	0.8	2.3	0.8	0.8
57.5°	0.0	0.0	0.0	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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