

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: PORTFOLIO

Report Number: P1178753

Luminaire Tested: LDA2B108040R2050D010 2LBD1WMH

Issue Date: 1/17/2025

Test Information

Test Method: LM-79-2019
Report Number: P1178753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2206-683-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/17/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDA2B108040R2050D010 2LBD1WMH
Description: 1000 LUMEN 2IN ADJUSTABLE LED LUMINAIRE WITH 80 CRI LEDS AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

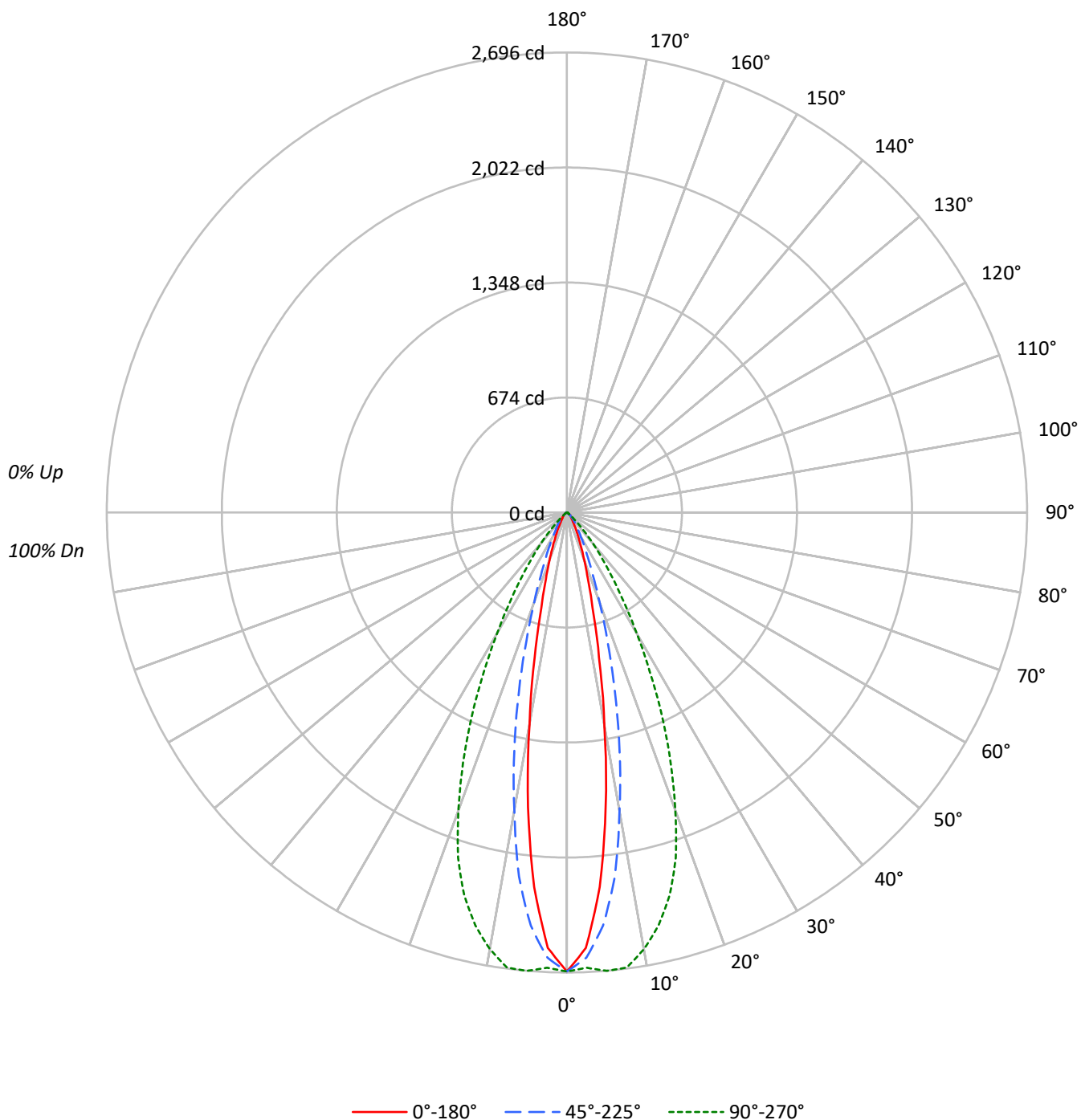
Lumens per Lamp: N/A
Luminaire Lumens: 966.8 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.8 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	96	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	91	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	90	88	86	86	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	82	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	78	78	76
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	74	74	73
7	89	81	76	72	88	80	75	72	79	75	71	78	74	71	77	73	71	71	71	70
8	85	77	72	69	84	77	72	69	76	71	68	75	71	68	74	70	68	68	68	67
9	82	74	69	66	81	74	69	66	73	68	65	72	68	65	71	68	65	65	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	62	69	65	62	62	62	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1326946	1326946	1326946
5°	1090929	1203696	1335333
10°	633229	889477	1301878
15°	295018	553976	1186407
20°	155460	292071	975181
25°	86064	158138	719214
30°	50474	92631	465148
35°	32403	62156	275605
40°	25311	41927	153152
45°	21908	25048	68097
50°	19802	17193	24945
55°	13504	12558	11612
60°	9966	8881	8881
65°	7822	6537	7822
70°	6491	6491	6491
75°	6481	6481	6481
80°	6251	6251	6251
85°	6227	6227	6227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 68097 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.1	22.2
10°-20°	350.6	36.3
20°-30°	233.9	24.2
30°-40°	105.4	10.9
40°-50°	38.6	4.0
50°-60°	13.5	1.4
60°-70°	6.3	0.7
70°-80°	3.3	0.3
80°-90°	0.9	0.1
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°	798.7	82.6
0°-40°	904.1	93.5
0°-60°	956.2	98.9
0°-90°	966.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	966.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2690	2690	2690	2690	2690	
5°	2203	2271	2430	2608	2696	180
15°	578	679	1085	1833	2323	173
25°	158	184	290	792	1321	76
35°	54	61	103	223	458	36
45°	31	31	36	56	98	25
55°	16	15	15	12	14	15
65°	7	7	6	6	7	7
75°	3	3	3	3	3	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2689.6	2689.6	2689.6	2689.6	2689.6
2.5°	2553.9	2580.8	2612.2	2644.7	2670.5
5°	2202.8	2271.2	2430.5	2607.7	2696.3
7.5°	1741.8	1842.8	2152.3	2502.3	2689.6
10°	1264.0	1393.0	1775.5	2319.5	2598.7
12.5°	869.2	990.4	1424.4	2088.4	2478.7
15°	577.6	678.6	1084.6	1832.7	2322.8
17.5°	407.1	475.6	788.5	1553.4	2122.1
20°	296.1	342.1	556.3	1279.7	1857.4
22.5°	215.3	250.1	395.9	1022.9	1589.3
25°	158.1	183.9	290.5	791.8	1321.2
27.5°	117.8	138.0	217.6	601.2	1053.2
30°	88.6	105.4	162.6	443.0	816.5
32.5°	68.4	79.6	124.5	316.3	618.0
35°	53.8	60.6	103.2	223.2	457.6
37.5°	44.9	49.4	85.2	155.9	335.4
40°	39.3	42.6	65.1	111.0	237.8
42.5°	34.8	37.0	47.1	79.6	154.8
45°	31.4	31.4	35.9	56.1	97.6
47.5°	29.2	25.8	28.0	39.3	57.2
50°	25.8	21.3	22.4	26.9	32.5
52.5°	20.2	17.9	17.9	17.9	19.1
55°	15.7	14.6	14.6	12.3	13.5
57.5°	12.3	12.3	11.2	10.1	11.2
60°	10.1	10.1	9.0	7.9	9.0
62.5°	7.9	7.9	6.7	6.7	7.9
65°	6.7	6.7	5.6	5.6	6.7
67.5°	5.6	5.6	5.6	4.5	5.6
70°	4.5	4.5	4.5	4.5	4.5
72.5°	3.4	3.4	4.5	3.4	3.4
75°	3.4	3.4	3.4	3.4	3.4
77.5°	2.2	2.2	2.2	2.2	2.2
80°	2.2	2.2	2.2	2.2	2.2
82.5°	1.1	1.1	1.1	1.1	1.1
85°	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)