

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: NEO-RAY

Report Number: P1032957

Luminaire Tested: S124RDIW-B350D1340UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032957
REPORT IS A COMBINATION OF REPORTS P1000320 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B350D1340UB2750-4F0-XX-W2A-F_3500K
Description: Define 4 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

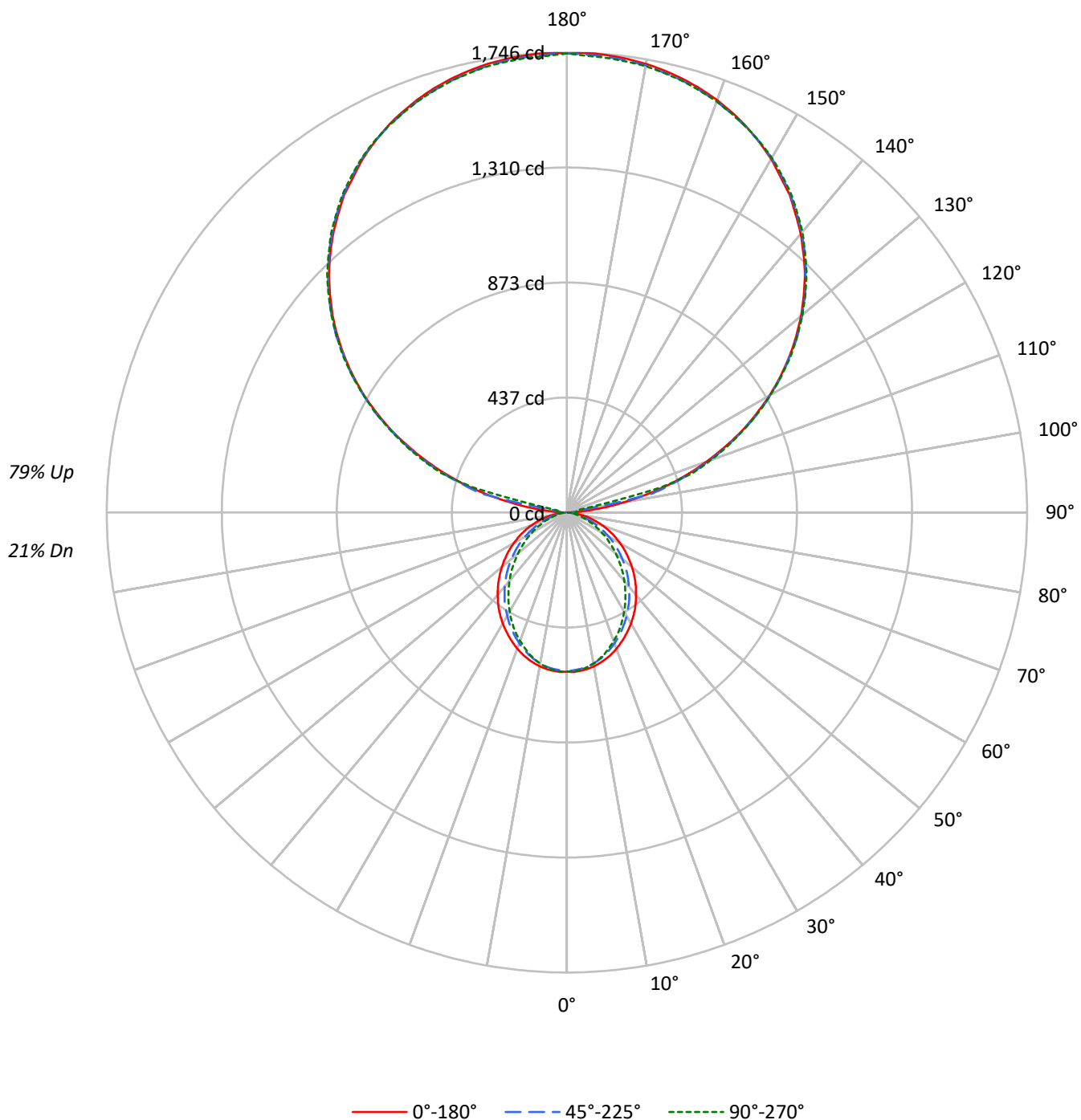
Lumens per Lamp: N/A
Luminaire Lumens: 6791.0 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
Input Voltage (V):
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
RCR																	
0	100	100	100	100	89	89	89	89	67	67	67		47	47	47		29
1	91	87	84	80	81	77	74	72	59	57	55		42	40	39		26
2	83	76	70	66	73	68	63	59	51	48	46		37	35	33		23
3	76	67	60	55	67	60	54	49	45	42	38		32	30	28		20
4	69	59	52	46	61	53	46	42	40	36	33		29	26	24		18
5	64	53	45	39	56	47	40	35	36	31	28		26	23	21		16
6	58	47	39	34	51	42	35	31	32	28	24		23	20	18		15
7	54	42	35	29	48	38	31	27	29	25	21		21	18	16		14
8	50	38	31	26	44	34	28	23	26	22	19		19	16	14		12
9	46	35	28	23	41	31	25	21	24	20	17		18	15	13		11
10	43	32	25	20	38	28	22	18	22	18	15		16	13	11		11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4927	4927	4927
5°	4927	4780	4781
10°	4885	4630	4575
15°	4819	4441	4331
20°	4730	4228	4053
25°	4620	3996	3782
30°	4513	3761	3477
35°	4395	3522	3180
40°	4254	3265	2874
45°	4122	3010	2571
50°	3972	2731	2264
55°	3811	2446	1946
60°	3630	2142	1633
65°	3456	1794	1331
70°	3210	1429	1017
75°	2893	1039	711
80°	2418	639	511
85°	1819	366	281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4122 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	0.8
10°-20°	158.4	2.3
20°-30°	228.7	3.4
30°-40°	259.2	3.8
40°-50°	250.3	3.7
50°-60°	208.1	3.1
60°-70°	143.6	2.1
70°-80°	72.6	1.1
80°-90°	22.0	0.3
90°-100°	57.8	0.9
100°-110°	380.9	5.6
110°-120°	727.3	10.7
120°-130°	923.3	13.6
130°-140°	987.7	14.5
140°-150°	923.6	13.6
150°-160°	744.8	11.0
160°-170°	480.4	7.1
170°-180°	165.5	2.4
0°-30°	443.9	6.5
0°-40°	703.1	10.4
0°-60°	1161.4	17.1
0°-90°	1399.6	20.6
90°-120°	1166.1	17.2
90°-150°	4000.7	58.9
90°-180°	5391.0	79.4
0°-180°	6791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	604	604	604	604	604	
5°	603	601	596	600	600	57
15°	575	570	559	558	555	162
25°	520	511	492	484	480	239
35°	449	434	411	396	387	281
45°	366	349	322	299	290	283
55°	278	259	229	205	196	248
65°	189	169	139	119	114	186
75°	100	83	62	51	48	106
85°	25	16	14	13	13	27
90°	4	18	29	36	39	5
95°	72	27	29	36	38	88
105°	392	400	407	418	371	411
115°	732	736	735	738	738	721
125°	1030	1035	1032	1036	1037	919
135°	1277	1276	1281	1284	1286	984
145°	1473	1476	1476	1478	1480	920
155°	1615	1616	1612	1617	1613	744
165°	1703	1697	1697	1707	1695	481
175°	1742	1734	1736	1748	1732	166
180°	1742	1742	1742	1742	1742	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	604.2	604.2	604.2	604.2	604.2
2.5°	606.0	604.2	599.1	604.2	603.7
5°	603.2	601.4	595.8	600.5	599.5
7.5°	599.1	597.2	590.3	593.5	592.1
10°	592.6	590.3	582.0	583.8	582.0
12.5°	584.3	581.5	571.3	572.3	569.5
15°	574.6	570.4	558.8	557.9	554.7
17.5°	563.5	557.4	544.0	541.7	537.1
20°	550.0	544.0	528.3	524.6	518.6
22.5°	535.2	528.3	511.2	505.2	500.5
25°	519.5	511.2	492.2	484.4	479.7
27.5°	503.3	493.1	473.3	464.0	457.5
30°	486.2	474.6	452.9	441.3	433.9
32.5°	468.2	454.7	432.1	418.2	411.3
35°	449.2	434.4	411.3	395.5	387.2
37.5°	429.3	414.0	388.6	371.5	363.1
40°	408.0	392.8	366.4	347.0	338.6
42.5°	387.7	371.5	343.7	323.8	315.0
45°	366.4	349.3	321.5	298.8	290.5
47.5°	344.6	327.1	298.4	274.8	265.5
50°	322.4	304.4	274.8	251.7	242.9
52.5°	299.8	282.2	251.7	228.1	218.8
55°	277.6	259.1	229.0	204.9	196.1
57.5°	255.8	236.4	206.8	182.3	175.8
60°	232.2	213.7	184.1	160.1	152.7
62.5°	211.0	191.5	161.0	139.2	133.7
65°	188.7	168.9	139.2	119.4	113.8
67.5°	165.6	146.6	118.9	101.3	94.8
70°	143.9	124.4	98.1	82.8	78.2
72.5°	120.7	103.6	79.1	66.6	62.5
75°	100.4	83.3	61.5	50.9	48.1
77.5°	79.1	64.3	45.8	38.4	37.5
80°	58.8	45.3	31.5	30.1	29.6
82.5°	41.2	29.1	22.7	21.7	21.3
85°	25.0	15.7	14.3	13.4	13.4
87.5°	10.6	6.9	6.5	6.0	6.5
90°	3.9	18.2	28.7	36.5	39.1
92.5°	19.5	16.9	27.4	35.2	35.2
95°	71.7	27.4	28.7	36.5	37.8
97.5°	136.8	165.5	28.7	35.2	36.5
100°	213.7	237.2	57.3	35.2	36.5
102.5°	299.7	315.4	331.0	37.8	37.8
105°	392.3	400.1	406.6	418.3	371.4
107.5°	477.0	480.9	490.0	496.5	501.7
110°	563.0	566.9	574.7	577.3	581.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	646.4	654.2	656.8	655.5	660.7
115°	732.4	736.3	735.0	737.6	737.6
117.5°	809.3	814.5	818.4	817.1	817.1
120°	887.5	892.7	891.4	894.0	891.4
122.5°	960.4	963.0	965.6	967.0	964.3
125°	1029.5	1034.7	1032.1	1036.0	1037.3
127.5°	1096.0	1097.3	1103.8	1102.5	1101.2
130°	1159.8	1161.1	1165.0	1166.3	1166.3
132.5°	1218.5	1221.1	1226.3	1227.6	1226.3
135°	1277.1	1275.8	1281.0	1283.6	1286.2
137.5°	1329.2	1329.2	1335.7	1338.4	1337.1
140°	1380.1	1382.7	1385.3	1389.2	1390.5
142.5°	1425.7	1430.9	1432.2	1434.8	1434.8
145°	1472.6	1476.5	1476.5	1477.8	1480.4
147.5°	1509.1	1516.9	1515.6	1516.9	1518.2
150°	1549.5	1554.7	1553.4	1553.4	1554.7
152.5°	1583.3	1587.3	1584.7	1587.3	1586.0
155°	1614.6	1615.9	1612.0	1617.2	1613.3
157.5°	1642.0	1642.0	1636.8	1643.3	1636.8
160°	1665.4	1661.5	1660.2	1668.1	1660.2
162.5°	1686.3	1681.1	1679.8	1687.6	1678.5
165°	1703.2	1696.7	1696.7	1707.2	1695.4
167.5°	1717.6	1711.1	1709.8	1721.5	1708.5
170°	1729.3	1721.5	1722.8	1733.2	1720.2
172.5°	1737.1	1729.3	1730.6	1741.0	1726.7
175°	1742.3	1734.5	1735.8	1747.5	1731.9
177.5°	1746.2	1737.1	1739.7	1750.2	1734.5
180°	1742.3	1742.3	1742.3	1742.3	1742.3

(END OF REPORT)