

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: P1034071

Luminaire Tested: S124RDIW-B350D1560UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034071
REPORT IS A COMBINATION OF REPORTS P1000377 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B350D1560UB35-4F0-XX-W2A-F1
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

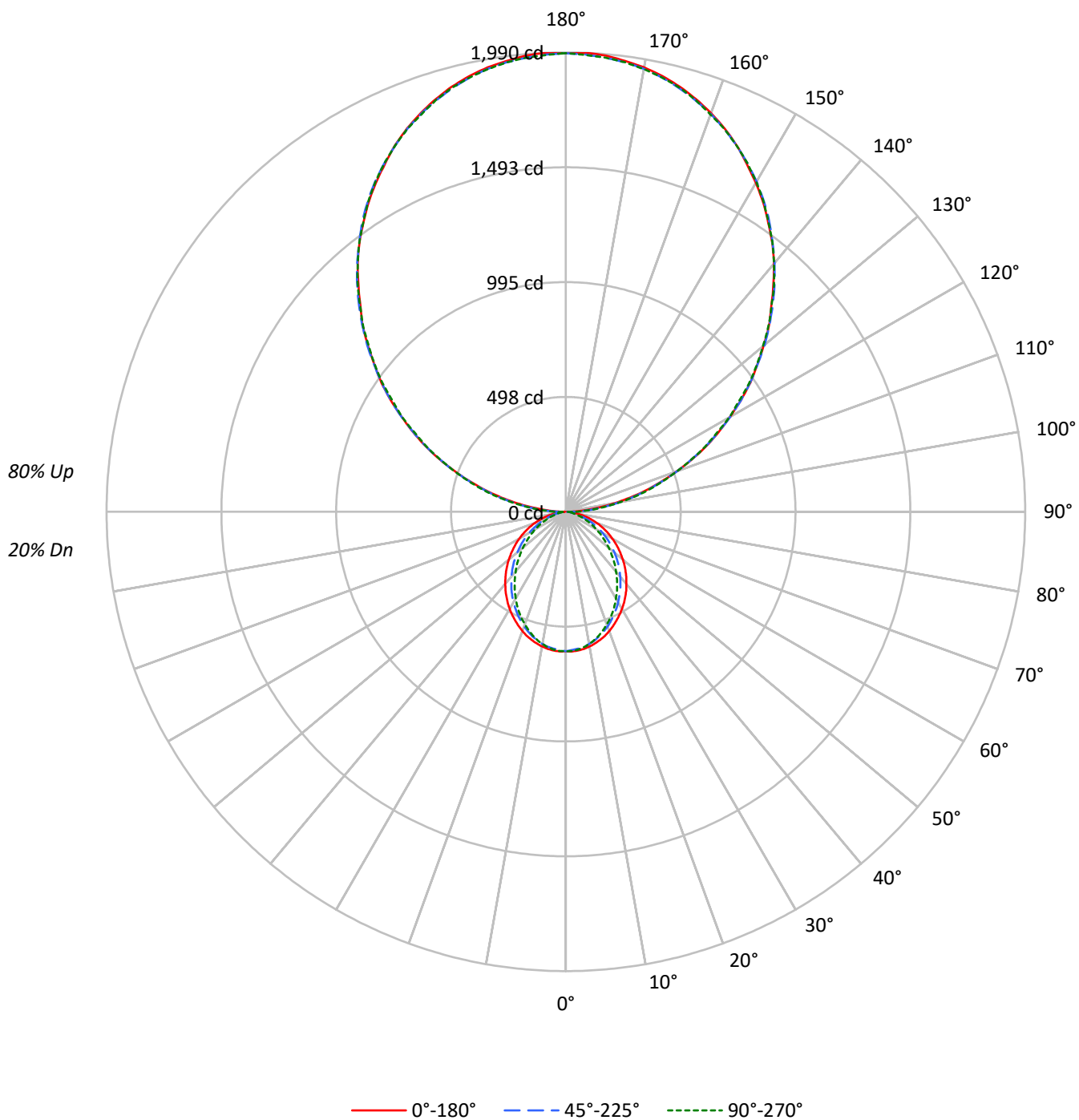
Lumens per Lamp: N/A
Luminaire Lumens: 6913.0 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 65.2
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

TEST NUMBER: P1034071

CATALOG NUMBER: S124RDIW-B350D1560UB35-4F0-XX-W2A-F1

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
RCR																	
0	100	100	100	100	88	88	88	88	67	67	67	47	47	47	29	29	29
1	91	87	83	80	81	77	74	71	58	57	55	41	40	39	26	25	24
2	83	76	70	66	73	68	63	59	51	48	45	36	34	33	23	22	21
3	76	67	60	55	67	59	54	49	45	41	38	32	30	28	20	19	18
4	69	59	52	46	61	53	46	41	40	36	32	29	26	24	18	17	15
5	63	53	45	39	56	47	40	35	36	31	28	26	23	21	16	15	13
6	58	47	39	34	51	42	35	31	32	28	24	23	20	18	15	13	12
7	54	42	35	29	47	38	31	27	29	24	21	21	18	16	13	12	10
8	50	38	31	26	44	34	28	23	26	22	19	19	16	14	12	11	9
9	46	35	28	23	41	31	25	21	24	20	17	18	15	12	11	10	8
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	8

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

TEST NUMBER: P1034071

CATALOG NUMBER: S124RDIW-B350D1560UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	0.8
10°-20°	158.4	2.3
20°-30°	228.7	3.3
30°-40°	259.2	3.7
40°-50°	250.3	3.6
50°-60°	208.1	3.0
60°-70°	143.6	2.1
70°-80°	72.6	1.0
80°-90°	22.7	0.3
90°-100°	129.5	1.9
100°-110°	387.9	5.6
110°-120°	659.0	9.5
120°-130°	869.1	12.6
130°-140°	976.1	14.1
140°-150°	959.4	13.9
150°-160°	806.9	11.7
160°-170°	536.9	7.8
170°-180°	188.0	2.7
0°-30°	443.9	6.4
0°-40°	703.1	10.2
0°-60°	1161.4	16.8
0°-90°	1400.2	20.3
90°-120°	1176.4	17.0
90°-150°	3981.0	57.6
90°-180°	5513.0	79.7
0°-180°	6913.0	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°	5	22	34	43	46	8
95°	92	106	117	121	121	100
105°	358	360	366	370	375	380
115°	670	670	667	665	664	661
125°	976	976	974	971	968	870
135°	1258	1268	1268	1265	1260	974
145°	1529	1535	1537	1535	1530	957
155°	1752	1752	1750	1756	1750	806
165°	1907	1902	1899	1908	1902	538
175°	1984	1976	1974	1985	1974	188
180°	1987	1987	1987	1987	1987	

TEST NUMBER: P1034071

CATALOG NUMBER: S124RDIW-B350D1560UB35-4F0-XX-W2A-F1

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°	4.6	21.5	33.8	43.0	46.1
92.5°	40.0	59.9	67.6	72.2	73.8
95°	92.2	106.0	116.8	121.4	121.4
97.5°	147.5	159.8	172.1	178.2	178.2
100°	215.1	221.3	235.1	238.2	238.2
102.5°	285.8	287.3	299.6	304.2	305.8
105°	358.0	359.6	365.7	370.3	374.9
107.5°	433.3	434.9	436.4	442.5	441.0
110°	510.2	513.2	511.7	508.6	513.2

TEST NUMBER: P1034071

CATALOG NUMBER: S124RDIW-B350D1560UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	590.1	590.1	587.0	587.0	587.0
115°	670.0	670.0	666.9	665.4	663.8
117.5°	745.3	745.3	743.7	739.1	734.5
120°	820.6	826.7	822.1	814.4	817.5
122.5°	898.9	900.5	898.9	894.3	886.6
125°	975.7	975.7	974.2	971.1	968.1
127.5°	1044.9	1049.5	1046.4	1043.4	1041.8
130°	1118.7	1123.3	1123.3	1120.2	1114.0
132.5°	1193.9	1197.0	1195.5	1192.4	1190.9
135°	1258.5	1267.7	1267.7	1264.6	1260.0
137.5°	1330.7	1335.3	1338.4	1333.8	1335.3
140°	1402.9	1406.0	1406.0	1404.5	1402.9
142.5°	1469.0	1472.1	1470.5	1470.5	1470.5
145°	1528.9	1535.1	1536.6	1535.1	1530.5
147.5°	1590.4	1598.1	1596.5	1595.0	1593.5
150°	1645.7	1651.9	1651.9	1651.9	1650.3
152.5°	1698.0	1701.0	1702.6	1707.2	1702.6
155°	1751.7	1751.7	1750.2	1756.3	1750.2
157.5°	1797.8	1794.8	1794.8	1799.4	1794.8
160°	1837.8	1836.3	1834.7	1839.3	1831.6
162.5°	1874.7	1870.1	1868.5	1877.7	1870.1
165°	1906.9	1902.3	1899.3	1908.5	1902.3
167.5°	1933.1	1926.9	1926.9	1936.1	1926.9
170°	1954.6	1946.9	1948.4	1957.6	1946.9
172.5°	1969.9	1963.8	1963.8	1974.5	1963.8
175°	1983.8	1976.1	1974.5	1985.3	1974.5
177.5°	1989.9	1982.2	1982.2	1993.0	1980.7
180°	1986.8	1986.8	1986.8	1986.8	1986.8

(END OF REPORT)