

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: P1033948

Luminaire Tested: S124RDIW-B1195D1340UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033948
REPORT IS A COMBINATION OF REPORTS P1000106 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B1195D1340UB30-4F0-XX-W2A-F
Description: Define 4 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

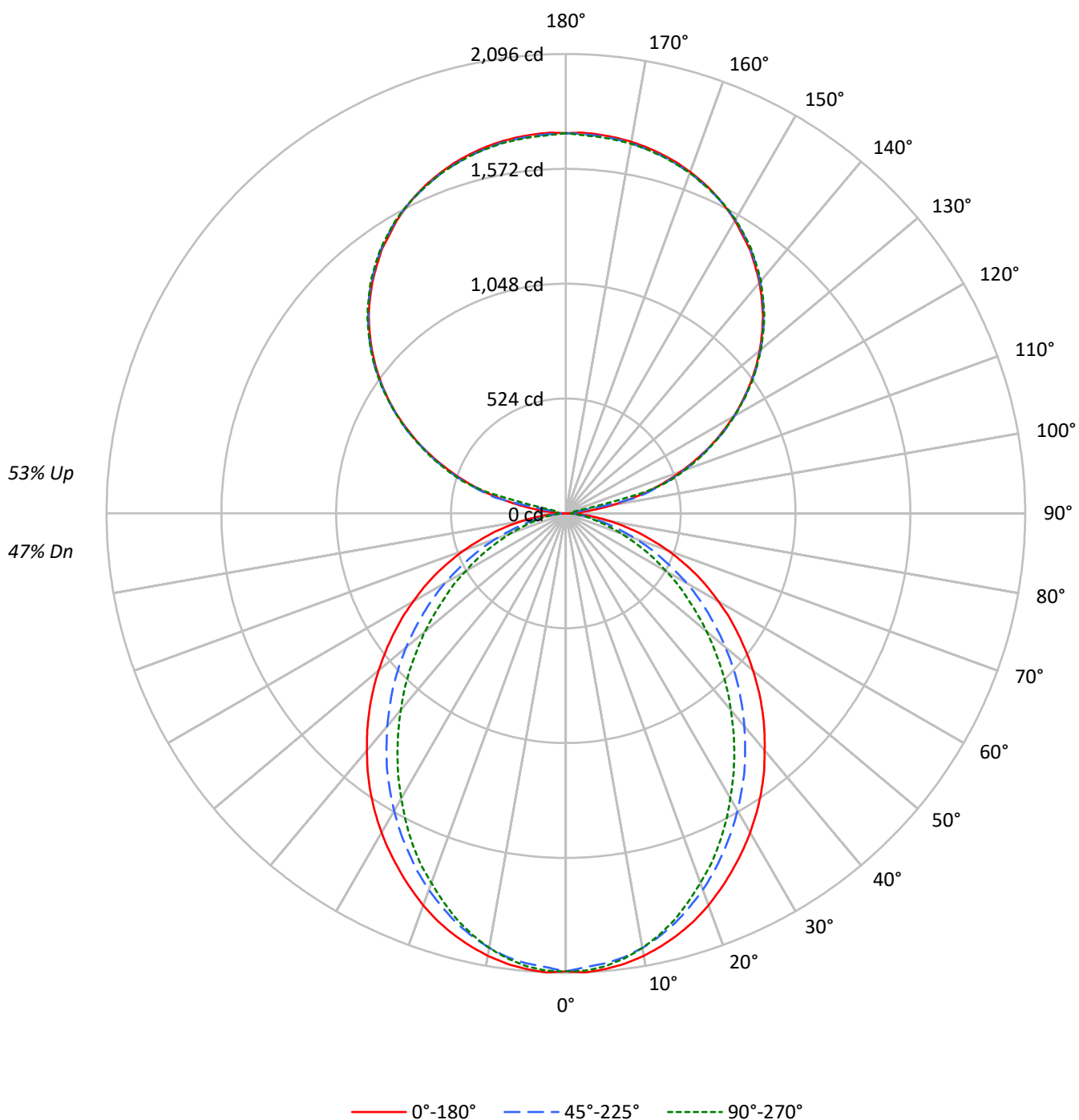
Lumens per Lamp: N/A
Luminaire Lumens: 10201.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 103.4
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: P1033948

CATALOG NUMBER: S124RDIW-B1195D1340UB30-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1033948

CATALOG NUMBER: S124RDIW-B1195D1340UB30-4F0-XX-W2A-F

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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46
2	89	82	76	71	82	75	70	66	64	60	56	53	50	48	42	41	39
3	81	72	65	59	74	67	60	55	56	52	48	47	43	40	38	35	33
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29
5	68	57	49	43	63	53	46	41	45	39	35	38	33	30	31	28	25
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	28	25	22
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	23	20	18
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17042	17042	17042
5°	17044	16536	16538
10°	16899	16014	15824
15°	16667	15365	14981
20°	16362	14624	14021
25°	15983	13825	13083
30°	15611	13009	12029
35°	15202	12183	11000
40°	14716	11293	9942
45°	14259	10411	8895
50°	13741	9447	7830
55°	13180	8459	6733
60°	12557	7410	5648
65°	11957	6207	4604
70°	11104	4941	3518
75°	10008	3594	2460
80°	8357	2207	1769
85°	6287	1271	973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14259 cd/sqm

TEST NUMBER: P1033948

CATALOG NUMBER: S124RDIW-B1195D1340UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	1.9
10°-20°	547.9	5.4
20°-30°	791.1	7.8
30°-40°	896.6	8.8
40°-50°	865.7	8.5
50°-60°	719.7	7.1
60°-70°	496.8	4.9
70°-80°	251.0	2.5
80°-90°	67.3	0.7
90°-100°	57.6	0.6
100°-110°	379.3	3.7
110°-120°	724.2	7.1
120°-130°	919.4	9.0
130°-140°	983.6	9.6
140°-150°	919.7	9.0
150°-160°	741.6	7.3
160°-170°	478.3	4.7
170°-180°	164.8	1.6
0°-30°	1535.6	15.1
0°-40°	2432.1	23.8
0°-60°	4017.5	39.4
0°-90°	4832.6	47.4
90°-120°	1161.0	11.4
90°-150°	3983.6	39.1
90°-180°	5368.0	52.6
0°-180°	10201.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2087	2080	2061	2077	2074	198
15°	1988	1973	1933	1930	1919	560
25°	1797	1768	1703	1676	1660	828
35°	1554	1503	1423	1368	1339	971
45°	1267	1208	1112	1034	1005	977
55°	960	896	792	709	678	859
65°	653	584	482	413	394	645
75°	347	288	213	176	166	366
85°	86	54	50	46	46	95
90°	4	18	28	36	39	9
95°	71	27	28	36	38	88
105°	391	398	405	416	370	409
115°	729	733	732	734	734	718
125°	1025	1030	1028	1032	1033	915
135°	1272	1270	1276	1278	1281	980
145°	1466	1470	1470	1472	1474	916
155°	1608	1609	1605	1610	1606	741
165°	1696	1690	1690	1700	1688	479
175°	1735	1727	1728	1740	1724	165
180°	1735	1735	1735	1735	1735	

TEST NUMBER: P1033948

CATALOG NUMBER: S124RDIW-B1195D1340UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2089.9	2089.9	2089.9	2089.9	2089.9
2.5°	2096.3	2089.9	2072.3	2089.9	2088.3
5°	2086.7	2080.3	2061.1	2077.1	2073.9
7.5°	2072.3	2065.9	2041.9	2053.1	2048.3
10°	2049.9	2041.9	2013.1	2019.5	2013.1
12.5°	2021.1	2011.5	1976.3	1979.5	1969.9
15°	1987.5	1973.1	1933.1	1929.9	1918.7
17.5°	1949.1	1928.3	1881.9	1873.9	1857.9
20°	1902.7	1881.9	1827.5	1814.7	1793.9
22.5°	1851.5	1827.5	1768.3	1747.5	1731.5
25°	1797.1	1768.3	1702.7	1675.5	1659.5
27.5°	1741.1	1705.9	1637.1	1605.1	1582.6
30°	1681.9	1641.9	1566.6	1526.6	1501.0
32.5°	1619.5	1573.0	1494.6	1446.6	1422.6
35°	1553.8	1502.6	1422.6	1368.2	1339.4
37.5°	1485.0	1432.2	1344.2	1285.0	1256.2
40°	1411.4	1358.6	1267.4	1200.2	1171.4
42.5°	1341.0	1285.0	1189.0	1120.2	1089.8
45°	1267.4	1208.2	1112.2	1033.8	1005.0
47.5°	1192.2	1131.4	1032.2	950.5	918.5
50°	1115.4	1053.0	950.5	870.5	840.1
52.5°	1037.0	976.2	870.5	788.9	756.9
55°	960.2	896.1	792.1	708.9	678.5
57.5°	884.9	817.7	715.3	630.5	608.1
60°	803.3	739.3	636.9	553.7	528.1
62.5°	729.7	662.5	556.9	481.7	462.5
65°	652.9	584.1	481.7	412.9	393.7
67.5°	572.9	507.3	411.3	350.5	328.1
70°	497.7	430.5	339.3	286.4	270.4
72.5°	417.7	358.5	273.6	230.4	216.0
75°	347.3	288.0	212.8	176.0	166.4
77.5°	273.6	222.4	158.4	132.8	129.6
80°	203.2	156.8	108.8	104.0	102.4
82.5°	142.4	100.8	78.4	75.2	73.6
85°	86.4	54.4	49.6	46.4	46.4
87.5°	36.8	24.0	22.4	20.8	22.4
90°	3.9	18.2	28.5	36.3	38.9
92.5°	19.5	16.9	27.2	35.0	35.0
95°	71.4	27.2	28.5	36.3	37.6
97.5°	136.2	164.8	28.5	35.0	36.3
100°	212.8	236.2	57.1	35.0	36.3
102.5°	298.5	314.0	329.6	37.6	37.6
105°	390.6	398.4	404.9	416.5	369.8
107.5°	474.9	478.8	487.9	494.4	499.6
110°	560.6	564.5	572.2	574.8	578.7

TEST NUMBER: P1033948

CATALOG NUMBER: S124RDIW-B1195D1340UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	643.6	651.4	654.0	652.7	657.9
115°	729.3	733.2	731.9	734.4	734.4
117.5°	805.8	811.0	814.9	813.6	813.6
120°	883.7	888.9	887.6	890.2	887.6
122.5°	956.3	958.9	961.5	962.8	960.2
125°	1025.1	1030.3	1027.7	1031.6	1032.9
127.5°	1091.3	1092.6	1099.1	1097.8	1096.5
130°	1154.9	1156.2	1160.1	1161.4	1161.4
132.5°	1213.3	1215.9	1221.1	1222.4	1221.1
135°	1271.7	1270.4	1275.6	1278.1	1280.7
137.5°	1323.6	1323.6	1330.1	1332.6	1331.4
140°	1374.2	1376.8	1379.4	1383.3	1384.6
142.5°	1419.6	1424.8	1426.1	1428.7	1428.7
145°	1466.3	1470.2	1470.2	1471.5	1474.1
147.5°	1502.6	1510.4	1509.1	1510.4	1511.7
150°	1542.9	1548.1	1546.8	1546.8	1548.1
152.5°	1576.6	1580.5	1577.9	1580.5	1579.2
155°	1607.7	1609.0	1605.1	1610.3	1606.4
157.5°	1635.0	1635.0	1629.8	1636.3	1629.8
160°	1658.3	1654.5	1653.2	1660.9	1653.2
162.5°	1679.1	1673.9	1672.6	1680.4	1671.3
165°	1696.0	1689.5	1689.5	1699.9	1688.2
167.5°	1710.3	1703.8	1702.5	1714.1	1701.2
170°	1721.9	1714.1	1715.4	1725.8	1712.8
172.5°	1729.7	1721.9	1723.2	1733.6	1719.3
175°	1734.9	1727.1	1728.4	1740.1	1724.5
177.5°	1738.8	1729.7	1732.3	1742.7	1727.1
180°	1734.9	1734.9	1734.9	1734.9	1734.9

(END OF REPORT)