

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: P1033944

Luminaire Tested: S124RDIW-B1195D1340UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033944
REPORT IS A COMBINATION OF REPORTS P1000086 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B1195D1340UB27-4F0-XX-W2A-F
Description: Define 4 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

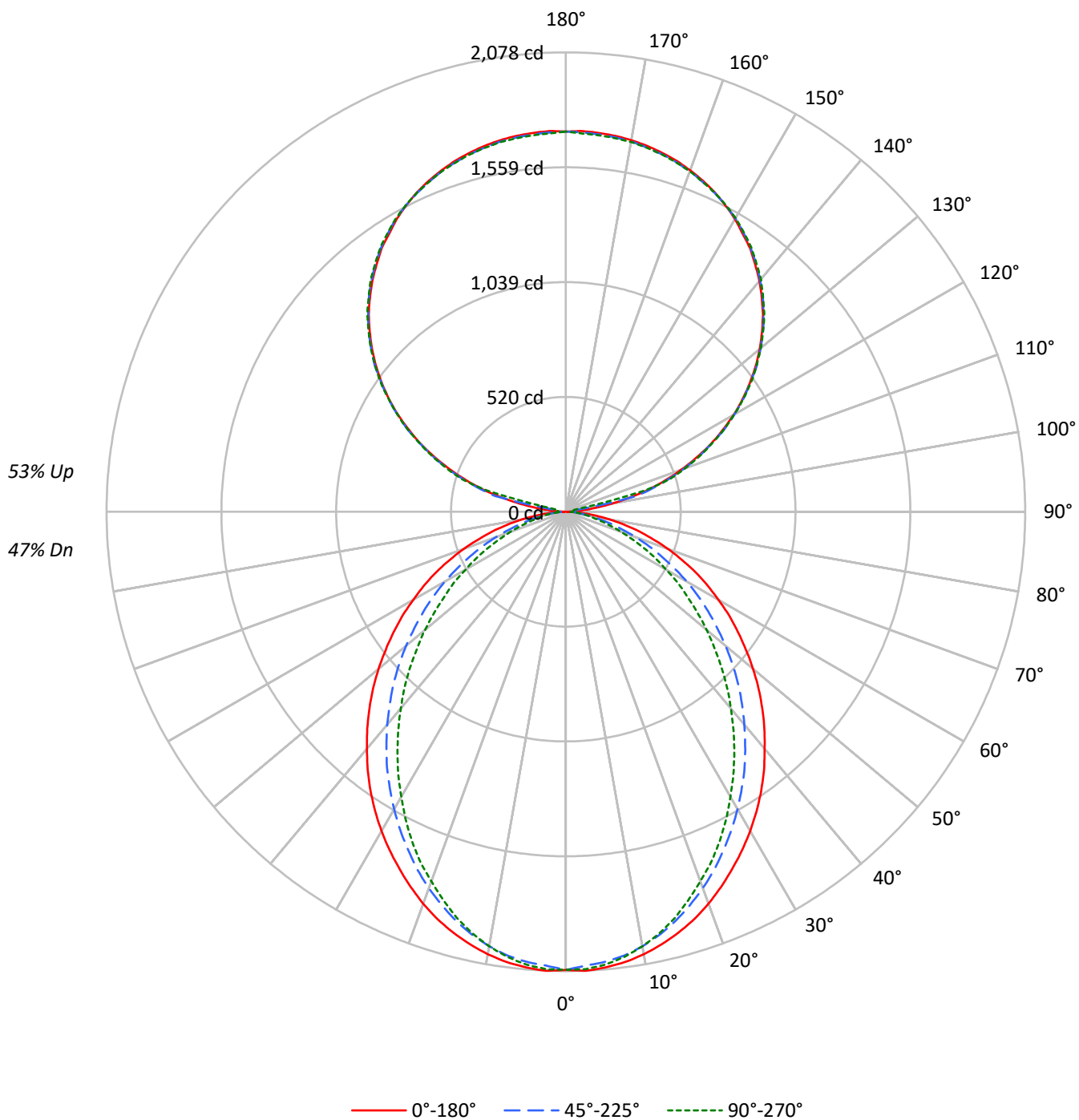
Lumens per Lamp: N/A
Luminaire Lumens: 10114.0 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1033944

CATALOG NUMBER: S124RDIW-B1195D1340UB27-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1033944

CATALOG NUMBER: S124RDIW-B1195D1340UB27-4F0-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	40	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°	16898	16898	16898
5°	16899	16395	16397
10°	16756	15878	15689
15°	16525	15234	14854
20°	16223	14500	13902
25°	15847	13707	12972
30°	15479	12899	11927
35°	15073	12079	10906
40°	14590	11197	9857
45°	14138	10322	8818
50°	13624	9367	7764
55°	13068	8387	6675
60°	12451	7347	5600
65°	11856	6154	4565
70°	11010	4899	3488
75°	9922	3563	2440
80°	8287	2188	1753
85°	6236	1261	964

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14138 cd/sqm

TEST NUMBER: P1033944

CATALOG NUMBER: S124RDIW-B1195D1340UB27-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	1.9
10°-20°	543.3	5.4
20°-30°	784.4	7.8
30°-40°	889.0	8.8
40°-50°	858.3	8.5
50°-60°	713.6	7.1
60°-70°	492.5	4.9
70°-80°	248.9	2.5
80°-90°	66.7	0.7
90°-100°	57.1	0.6
100°-110°	376.0	3.7
110°-120°	718.0	7.1
120°-130°	911.5	9.0
130°-140°	975.1	9.6
140°-150°	911.8	9.0
150°-160°	735.3	7.3
160°-170°	474.2	4.7
170°-180°	163.4	1.6
0°-30°	1522.5	15.1
0°-40°	2411.5	23.8
0°-60°	3983.4	39.4
0°-90°	4791.5	47.4
90°-120°	1151.1	11.4
90°-150°	3949.5	39.1
90°-180°	5322.0	52.6
0°-180°	10114.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2072	2072	2072	2072	2072	
5°	2069	2063	2044	2060	2056	196
15°	1971	1956	1917	1914	1902	555
25°	1782	1753	1688	1661	1645	821
35°	1541	1490	1410	1357	1328	963
45°	1257	1198	1103	1025	996	969
55°	952	888	785	703	673	852
65°	647	579	478	409	390	639
75°	344	286	211	174	165	363
85°	86	54	49	46	46	94
90°	4	18	28	36	39	9
95°	71	27	28	36	37	87
105°	387	395	401	413	367	405
115°	723	727	726	728	728	712
125°	1016	1022	1019	1023	1024	908
135°	1261	1260	1265	1267	1270	971
145°	1454	1458	1458	1459	1462	908
155°	1594	1595	1591	1596	1593	735
165°	1682	1675	1675	1685	1674	475
175°	1720	1712	1714	1725	1710	164
180°	1720	1720	1720	1720	1720	

TEST NUMBER: P1033944

CATALOG NUMBER: S124RDIW-B1195D1340UB27-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.2	2072.2	2072.2	2072.2	2072.2
2.5°	2078.5	2072.2	2054.7	2072.2	2070.6
5°	2069.0	2062.7	2043.6	2059.5	2056.3
7.5°	2054.7	2048.4	2024.6	2035.7	2030.9
10°	2032.5	2024.6	1996.0	2002.4	1996.0
12.5°	2004.0	1994.4	1959.5	1962.7	1953.2
15°	1970.6	1956.4	1916.7	1913.5	1902.4
17.5°	1932.6	1911.9	1865.9	1858.0	1842.1
20°	1886.5	1865.9	1812.0	1799.3	1778.7
22.5°	1835.8	1812.0	1753.3	1732.6	1716.8
25°	1781.8	1753.3	1688.2	1661.2	1645.4
27.5°	1726.3	1691.4	1623.2	1591.4	1569.2
30°	1667.6	1627.9	1553.3	1513.7	1488.3
32.5°	1605.7	1559.7	1481.9	1434.3	1410.5
35°	1540.7	1489.9	1410.5	1356.6	1328.0
37.5°	1472.4	1420.1	1332.8	1274.1	1245.5
40°	1399.4	1347.1	1256.6	1190.0	1161.4
42.5°	1329.6	1274.1	1178.9	1110.7	1080.5
45°	1256.6	1197.9	1102.7	1025.0	996.4
47.5°	1182.1	1121.8	1023.4	942.5	910.7
50°	1105.9	1044.0	942.5	863.1	833.0
52.5°	1028.2	967.9	863.1	782.2	750.5
55°	952.0	888.5	785.4	702.9	672.7
57.5°	877.4	810.8	709.2	625.1	602.9
60°	796.5	733.0	631.5	549.0	523.6
62.5°	723.5	656.9	552.2	477.6	458.5
65°	647.4	579.1	477.6	409.4	390.3
67.5°	568.0	503.0	407.8	347.5	325.3
70°	493.5	426.8	336.4	284.0	268.1
72.5°	414.1	355.4	271.3	228.5	214.2
75°	344.3	285.6	211.0	174.5	165.0
77.5°	271.3	220.5	157.1	131.7	128.5
80°	201.5	155.5	107.9	103.1	101.5
82.5°	141.2	100.0	77.7	74.6	73.0
85°	85.7	53.9	49.2	46.0	46.0
87.5°	36.5	23.8	22.2	20.6	22.2
90°	3.9	18.0	28.3	36.0	38.6
92.5°	19.3	16.7	27.0	34.7	34.7
95°	70.8	27.0	28.3	36.0	37.3
97.5°	135.1	163.4	28.3	34.7	36.0
100°	211.0	234.1	56.6	34.7	36.0
102.5°	295.9	311.3	326.8	37.3	37.3
105°	387.2	395.0	401.4	413.0	366.7
107.5°	470.9	474.7	483.7	490.2	495.3
110°	555.8	559.6	567.3	569.9	573.8

TEST NUMBER: P1033944

CATALOG NUMBER: S124RDIW-B1195D1340UB27-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	638.1	645.8	648.4	647.1	652.3
115°	723.0	726.9	725.6	728.2	728.2
117.5°	798.9	804.1	807.9	806.6	806.6
120°	876.1	881.3	880.0	882.5	880.0
122.5°	948.2	950.7	953.3	954.6	952.0
125°	1016.3	1021.5	1018.9	1022.8	1024.1
127.5°	1081.9	1083.2	1089.7	1088.4	1087.1
130°	1145.0	1146.3	1150.1	1151.4	1151.4
132.5°	1202.9	1205.5	1210.6	1211.9	1210.6
135°	1260.8	1259.5	1264.6	1267.2	1269.8
137.5°	1312.2	1312.2	1318.7	1321.2	1320.0
140°	1362.4	1365.0	1367.6	1371.4	1372.7
142.5°	1407.4	1412.6	1413.9	1416.4	1416.4
145°	1453.7	1457.6	1457.6	1458.9	1461.5
147.5°	1489.8	1497.5	1496.2	1497.5	1498.8
150°	1529.6	1534.8	1533.5	1533.5	1534.8
152.5°	1563.1	1567.0	1564.4	1567.0	1565.7
155°	1594.0	1595.3	1591.4	1596.5	1592.7
157.5°	1621.0	1621.0	1615.8	1622.3	1615.8
160°	1644.1	1640.3	1639.0	1646.7	1639.0
162.5°	1664.7	1659.6	1658.3	1666.0	1657.0
165°	1681.5	1675.0	1675.0	1685.3	1673.7
167.5°	1695.6	1689.2	1687.9	1699.5	1686.6
170°	1707.2	1699.5	1700.8	1711.0	1698.2
172.5°	1714.9	1707.2	1708.5	1718.8	1704.6
175°	1720.1	1712.3	1713.6	1725.2	1709.8
177.5°	1723.9	1714.9	1717.5	1727.8	1712.3
180°	1720.1	1720.1	1720.1	1720.1	1720.1

(END OF REPORT)