

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: P1031042

Luminaire Tested: S123RDIW-B1000D1535UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031042
REPORT IS A COMBINATION OF REPORTS P993824 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1000D1535UB2750-4F0-XX-W2A-F_3500K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

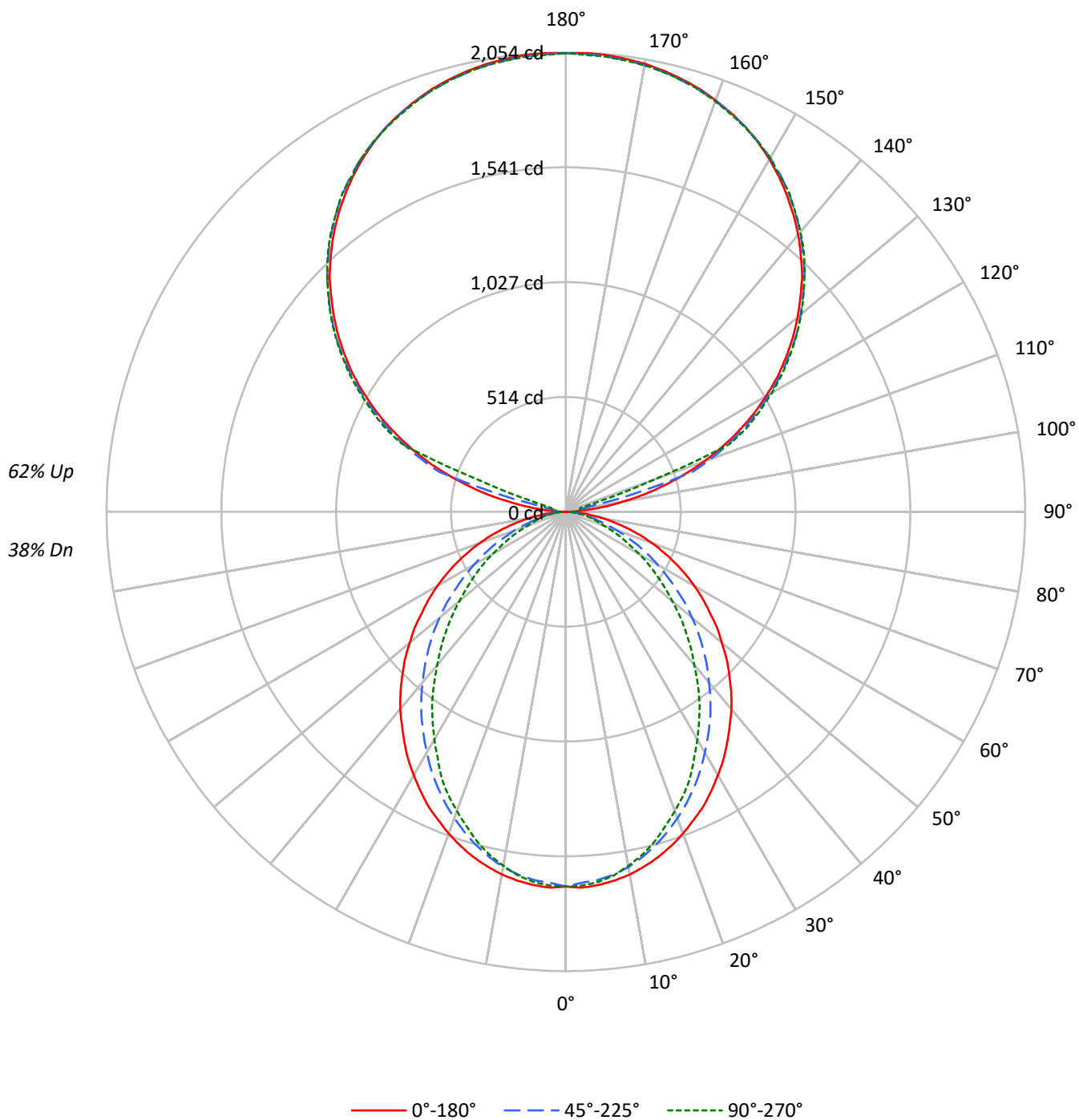
Lumens per Lamp: N/A
Luminaire Lumens: 10040.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 99
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: P1031042

CATALOG NUMBER: S123RDIW-B1000D1535UB2750-4F0-XX-W2A-F_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1031042

CATALOG NUMBER: S123RDIW-B1000D1535UB2750-4F0-XX-W2A-F_3500K

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38
2	87	80	74	69	79	73	68	63	59	56	53	47	45	42	35	34	33
3	79	70	63	58	72	64	58	53	52	48	45	42	39	36	32	30	28
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	28	26	24
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	23	21	19
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	21	19	17
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18034	18034	18034
5°	18063	17396	17349
10°	17922	16742	16411
15°	17688	15933	15385
20°	17384	15054	14239
25°	17069	14140	13153
30°	16664	13168	11868
35°	16249	12214	10698
40°	15859	11177	9406
45°	15356	10163	8244
50°	14804	9081	7042
55°	14231	7922	5939
60°	13683	6734	4821
65°	12974	5514	3763
70°	12086	4170	2690
75°	10803	2823	2130
80°	9218	1962	1494
85°	6916	1058	782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15356 cd/sqm

TEST NUMBER: P1031042

CATALOG NUMBER: S123RDIW-B1000D1535UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	1.6
10°-20°	438.1	4.4
20°-30°	630.8	6.3
30°-40°	710.4	7.1
40°-50°	679.5	6.8
50°-60°	556.3	5.5
60°-70°	375.0	3.7
70°-80°	188.1	1.9
80°-90°	53.3	0.5
90°-100°	72.3	0.7
100°-110°	349.6	3.5
110°-120°	856.7	8.5
120°-130°	1087.5	10.8
130°-140°	1161.8	11.6
140°-150°	1086.4	10.8
150°-160°	876.3	8.7
160°-170°	565.5	5.6
170°-180°	194.9	1.9
0°-30°	1226.5	12.2
0°-40°	1936.9	19.3
0°-60°	3172.7	31.6
0°-90°	3789.1	37.7
90°-120°	1278.6	12.7
90°-150°	4614.2	46.0
90°-180°	6251.0	62.3
0°-180°	10040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1675	1669	1652	1664	1662	159
15°	1598	1583	1545	1538	1529	450
25°	1454	1420	1357	1329	1314	669
35°	1258	1209	1125	1067	1042	788
45°	1034	973	868	791	758	798
55°	785	719	603	524	497	704
65°	537	462	356	289	274	531
75°	284	219	144	130	128	303
85°	72	42	38	35	35	79
90°	2	17	37	43	46	10
95°	93	30	47	58	58	111
105°	454	471	334	64	67	481
115°	852	861	874	890	896	841
125°	1200	1213	1219	1222	1225	1073
135°	1494	1504	1510	1514	1510	1151
145°	1724	1735	1738	1741	1741	1080
155°	1900	1897	1898	1906	1897	875
165°	2003	1999	1997	2009	1999	566
175°	2050	2043	2044	2055	2043	195
180°	2050	2050	2050	2050	2050	

TEST NUMBER: P1031042

CATALOG NUMBER: S123RDIW-B1000D1535UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.4	1675.4	1675.4	1675.4	1675.4
2.5°	1682.2	1676.7	1660.4	1675.4	1672.7
5°	1675.4	1668.6	1652.3	1664.5	1661.8
7.5°	1663.2	1656.4	1636.0	1644.1	1640.1
10°	1646.9	1637.3	1612.9	1614.2	1607.4
12.5°	1623.8	1612.9	1581.6	1580.3	1572.1
15°	1597.9	1583.0	1544.9	1538.2	1528.6
17.5°	1566.7	1550.4	1502.8	1489.2	1475.6
20°	1531.4	1509.6	1458.0	1440.3	1424.0
22.5°	1492.0	1466.1	1410.4	1387.3	1372.4
25°	1453.9	1419.9	1357.4	1328.9	1314.0
27.5°	1407.7	1371.0	1303.1	1265.0	1241.9
30°	1360.1	1319.4	1243.3	1197.1	1175.4
32.5°	1312.6	1265.0	1183.5	1131.9	1108.8
35°	1258.2	1209.3	1125.1	1066.7	1042.2
37.5°	1203.9	1150.9	1062.6	997.4	967.5
40°	1152.3	1092.5	996.0	925.3	894.1
42.5°	1093.8	1034.0	933.5	854.7	827.5
45°	1034.0	972.9	868.3	790.8	758.2
47.5°	975.6	907.7	804.4	720.2	691.6
50°	910.4	846.5	736.5	652.2	621.0
52.5°	852.0	781.3	672.6	584.3	557.1
55°	785.4	718.8	603.3	524.5	497.3
57.5°	725.6	653.6	536.7	462.0	438.9
60°	663.1	588.4	475.6	402.2	379.1
62.5°	600.6	525.9	413.1	345.1	320.7
65°	536.7	462.0	356.0	289.4	274.5
67.5°	472.9	396.8	293.5	243.2	226.9
70°	410.4	337.0	241.9	194.3	179.4
72.5°	347.9	275.8	191.6	154.9	150.8
75°	284.0	218.8	144.0	130.4	127.7
77.5°	225.6	165.8	112.8	104.6	101.9
80°	169.8	114.1	85.6	81.5	78.8
82.5°	116.9	70.7	61.1	57.1	57.1
85°	72.0	42.1	38.0	35.3	35.3
87.5°	32.6	17.7	17.7	16.3	14.9
90°	1.5	16.8	36.6	42.7	45.7
92.5°	35.0	25.9	39.6	50.3	51.8
95°	92.9	30.5	47.2	57.9	57.9
97.5°	169.1	126.4	48.7	60.9	62.5
100°	257.4	287.9	50.3	62.5	64.0
102.5°	358.0	377.8	112.7	62.5	65.5
105°	454.0	470.7	333.6	64.0	67.0
107.5°	556.0	569.7	592.6	358.0	158.4
110°	658.1	670.3	687.0	636.8	418.9

TEST NUMBER: P1031042

CATALOG NUMBER: S123RDIW-B1000D1535UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	755.6	766.2	783.0	796.7	793.7
115°	851.6	860.7	874.4	889.6	895.7
117.5°	946.0	956.7	964.3	976.5	978.0
120°	1032.8	1046.5	1051.1	1063.3	1063.3
122.5°	1121.2	1131.8	1137.9	1145.6	1147.1
125°	1200.4	1212.6	1218.7	1221.7	1224.8
127.5°	1279.6	1291.8	1299.4	1304.0	1300.9
130°	1352.7	1364.9	1371.0	1377.1	1374.1
132.5°	1422.8	1435.0	1439.6	1445.7	1441.1
135°	1494.4	1503.5	1509.6	1514.2	1509.6
137.5°	1555.3	1567.5	1570.6	1578.2	1575.1
140°	1616.3	1625.4	1630.0	1636.1	1633.0
142.5°	1672.6	1681.8	1686.3	1690.9	1686.3
145°	1724.4	1735.1	1738.1	1741.2	1741.2
147.5°	1774.7	1782.3	1785.4	1788.4	1780.8
150°	1820.4	1825.0	1828.0	1831.1	1826.5
152.5°	1861.5	1863.1	1864.6	1870.7	1863.1
155°	1899.6	1896.6	1898.1	1905.7	1896.6
157.5°	1930.1	1930.1	1928.6	1937.7	1925.5
160°	1957.5	1956.0	1954.5	1963.6	1952.9
162.5°	1983.4	1978.8	1977.3	1988.0	1978.8
165°	2003.2	1998.6	1997.1	2009.3	1998.6
167.5°	2020.0	2013.9	2013.9	2026.1	2013.9
170°	2033.7	2027.6	2027.6	2039.8	2027.6
172.5°	2042.8	2035.2	2036.7	2048.9	2035.2
175°	2050.4	2042.8	2044.3	2055.0	2042.8
177.5°	2053.5	2045.9	2047.4	2059.6	2044.3
180°	2050.4	2050.4	2050.4	2050.4	2050.4

(END OF REPORT)