

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: P1029213

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029213
REPORT IS A COMBINATION OF REPORTS P985161 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

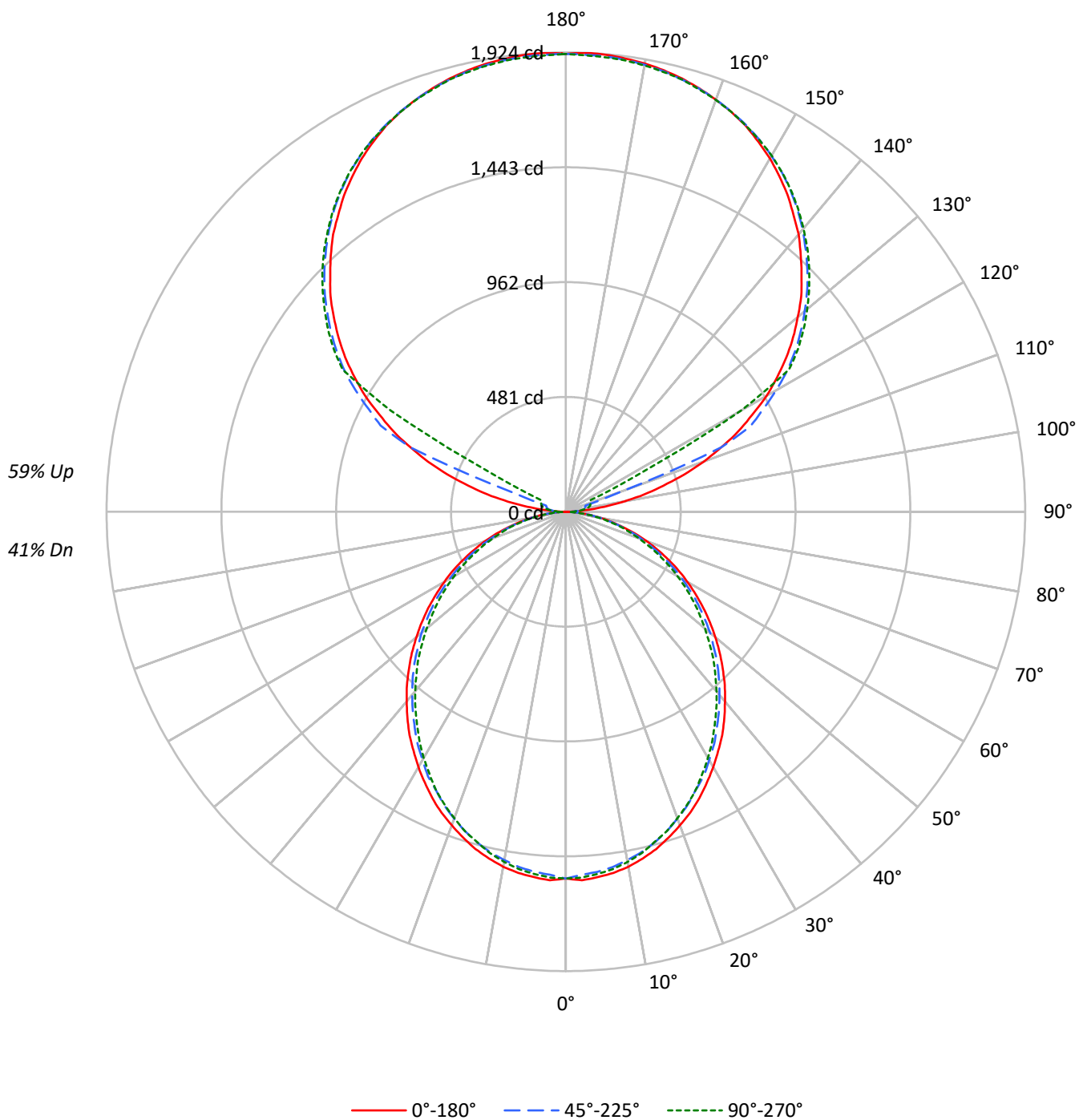
Lumens per Lamp: N/A
Luminaire Lumens: 9533.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 113.5
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: P1029213

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F_5000K

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	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41		
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	35		
2	87	80	74	69	79	73	68	63	60	56	53	48	46	43	37	36	34	29		
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	25		
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21		
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	27	24	22	18		
6	61	50	42	36	56	45	38	33	38	33	29	31	27	24	24	21	19	16		
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14		
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	17	15	13		
9	49	37	30	25	45	34	27	23	29	23	20	23	20	17	19	16	14	12		
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24315	24315	24315
5°	24355	23176	23013
10°	24156	22120	21681
15°	23803	21057	20282
20°	23324	19899	18956
25°	22848	18690	17633
30°	22249	17554	16243
35°	21683	16355	14879
40°	20984	15172	13589
45°	20289	13999	12325
50°	19533	12805	11011
55°	18732	11530	9770
60°	17837	10148	8477
65°	16854	8743	7118
70°	15608	7206	5748
75°	13879	5555	4439
80°	11792	3776	2857
85°	8560	1756	1216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20289 cd/sqm

TEST NUMBER: P1029213

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	1.5
10°-20°	406.8	4.3
20°-30°	597.8	6.3
30°-40°	694.3	7.3
40°-50°	693.4	7.3
50°-60°	604.6	6.3
60°-70°	446.9	4.7
70°-80°	252.9	2.7
80°-90°	70.1	0.7
90°-100°	63.3	0.7
100°-110°	235.7	2.5
110°-120°	625.1	6.6
120°-130°	1036.8	10.9
130°-140°	1101.4	11.6
140°-150°	1023.6	10.7
150°-160°	822.9	8.6
160°-170°	530.3	5.6
170°-180°	182.5	1.9
0°-30°	1149.1	12.1
0°-40°	1843.4	19.3
0°-60°	3141.4	33.0
0°-90°	3911.4	41.0
90°-120°	924.1	9.7
90°-150°	4085.9	42.9
90°-180°	5622.0	59.0
0°-180°	9533.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1536	1530	1514	1526	1523	146
15°	1462	1453	1434	1440	1433	412
25°	1323	1312	1286	1289	1286	609
35°	1142	1127	1103	1094	1087	713
45°	929	919	896	880	874	717
55°	703	694	676	659	651	629
65°	474	465	450	437	430	469
75°	248	245	238	229	232	265
85°	61	59	58	53	52	67
90°	1	17	28	35	38	9
95°	90	44	54	61	60	107
105°	422	463	85	100	106	451
115°	798	821	856	214	114	785
125°	1128	1146	1172	1182	1186	1006
135°	1396	1418	1430	1444	1442	1078
145°	1619	1618	1641	1651	1644	1013
155°	1783	1770	1787	1796	1784	822
165°	1879	1870	1875	1884	1875	531
175°	1922	1912	1915	1924	1911	183
180°	1918	1918	1918	1918	1918	

TEST NUMBER: P1029213

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.1	1536.1	1536.1	1536.1	1536.1
2.5°	1544.9	1537.5	1521.3	1536.1	1533.1
5°	1536.1	1530.2	1513.9	1525.7	1522.8
7.5°	1525.7	1516.9	1500.6	1512.4	1509.5
10°	1509.5	1499.1	1481.4	1493.2	1488.8
12.5°	1487.3	1478.5	1460.7	1468.1	1465.2
15°	1462.2	1453.4	1434.2	1440.1	1432.7
17.5°	1431.2	1422.3	1403.1	1410.5	1403.1
20°	1397.2	1388.4	1367.7	1372.1	1366.2
22.5°	1363.3	1350.0	1330.8	1330.8	1327.8
25°	1323.4	1311.6	1286.5	1289.4	1286.5
27.5°	1279.1	1268.7	1249.5	1245.1	1237.7
30°	1234.8	1222.9	1200.8	1196.4	1190.5
32.5°	1187.5	1178.6	1155.0	1146.1	1140.2
35°	1141.7	1126.9	1103.3	1094.4	1087.1
37.5°	1090.0	1076.7	1053.1	1042.8	1035.4
40°	1036.8	1025.0	1001.4	988.1	982.2
42.5°	985.2	973.3	949.7	934.9	926.1
45°	929.0	918.7	896.5	880.3	874.4
47.5°	874.4	864.0	840.4	824.2	815.3
50°	816.8	809.4	788.7	768.0	760.6
52.5°	760.6	750.3	731.1	714.9	704.5
55°	703.0	694.2	676.5	658.7	651.4
57.5°	645.4	638.1	618.9	601.1	595.2
60°	587.8	581.9	561.3	545.0	540.6
62.5°	531.7	521.4	506.6	491.8	485.9
65°	474.1	465.3	450.5	437.2	429.8
67.5°	415.0	407.6	394.4	384.0	378.1
70°	360.4	354.5	341.2	330.8	324.9
72.5°	304.3	298.4	291.0	280.6	276.2
75°	248.1	245.2	237.8	228.9	231.9
77.5°	197.9	192.0	189.1	184.6	180.2
80°	147.7	146.2	143.3	138.8	135.9
82.5°	100.4	100.4	99.0	93.1	93.1
85°	60.6	59.1	57.6	53.2	51.7
87.5°	26.6	23.6	20.7	16.2	14.8
90°	1.4	16.7	27.8	34.7	37.5
92.5°	34.7	29.1	33.3	36.1	37.5
95°	90.2	44.4	54.1	61.1	59.7
97.5°	162.3	48.6	70.8	74.9	76.3
100°	245.6	55.5	79.1	90.2	93.0
102.5°	337.2	334.4	81.9	97.1	101.3
105°	421.8	463.4	84.6	99.9	105.5
107.5°	520.3	555.0	87.4	102.7	108.2
110°	614.7	643.8	242.8	104.1	109.6

TEST NUMBER: P1029213

CATALOG NUMBER: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	703.5	728.5	704.9	106.8	111.0
115°	797.8	821.4	856.1	213.7	113.8
117.5°	879.7	907.4	931.0	732.6	369.1
120°	971.3	992.1	1017.1	1033.7	846.4
122.5°	1049.0	1071.2	1098.9	1107.2	1108.6
125°	1128.1	1146.1	1172.5	1182.2	1186.3
127.5°	1200.2	1219.6	1240.5	1254.3	1255.7
130°	1268.2	1290.4	1305.7	1320.9	1319.5
132.5°	1337.6	1355.6	1370.9	1383.4	1382.0
135°	1395.9	1418.1	1430.5	1444.4	1441.6
137.5°	1456.9	1473.6	1487.4	1501.3	1497.1
140°	1516.6	1527.7	1542.9	1555.4	1548.5
142.5°	1566.5	1576.2	1594.3	1605.4	1598.4
145°	1619.2	1617.9	1641.4	1651.2	1644.2
147.5°	1665.0	1660.9	1684.5	1691.4	1685.8
150°	1709.4	1699.7	1721.9	1730.2	1723.3
152.5°	1746.9	1735.8	1756.6	1764.9	1755.2
155°	1783.0	1770.5	1787.1	1795.5	1784.4
157.5°	1812.1	1801.0	1813.5	1823.2	1812.1
160°	1837.1	1828.8	1837.1	1845.4	1835.7
162.5°	1859.3	1851.0	1857.9	1867.6	1855.1
165°	1878.7	1870.4	1874.6	1884.3	1874.6
167.5°	1894.0	1885.7	1889.8	1899.5	1887.0
170°	1906.5	1898.1	1900.9	1910.6	1898.1
172.5°	1914.8	1906.5	1909.2	1919.0	1906.5
175°	1921.7	1912.0	1914.8	1924.5	1910.6
177.5°	1924.5	1914.8	1916.2	1925.9	1913.4
180°	1917.6	1917.6	1917.6	1917.6	1917.6

(END OF REPORT)