

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: P1030757

Luminaire Tested: S123DIW-B1165D1535UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1030757
REPORT IS A COMBINATION OF REPORTS P991008 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1165D1535UB2750-4F0-XX-W2A-F_3500K
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

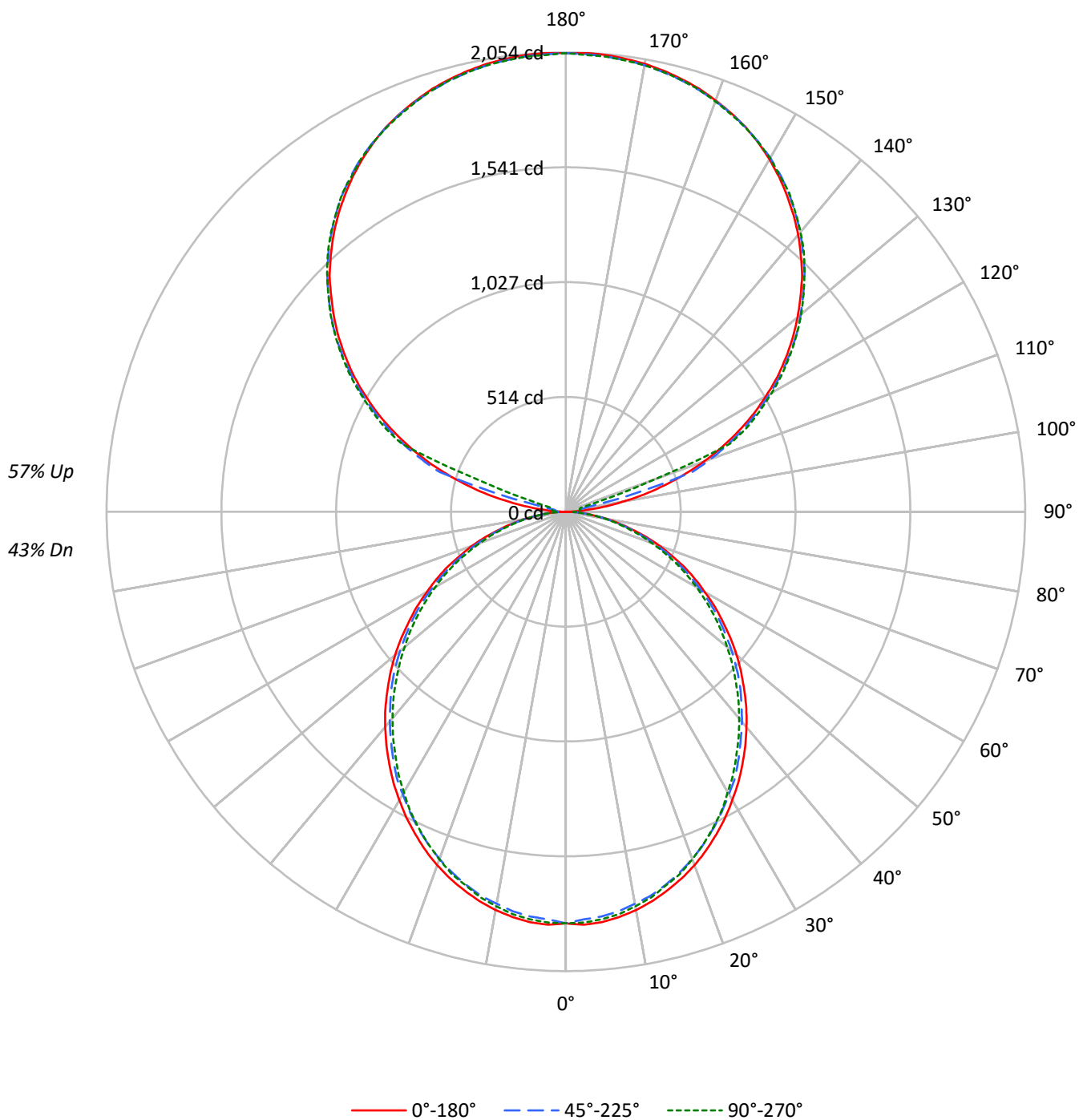
Lumens per Lamp: N/A
Luminaire Lumens: 11044.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42
2	88	80	74	69	80	74	68	64	61	57	54	49	47	44	39	37	35
3	80	70	63	57	73	65	58	53	54	49	45	44	40	38	34	32	30
4	73	62	54	49	66	57	50	45	48	43	39	39	35	32	31	28	26
5	67	55	47	41	61	51	44	39	43	37	33	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	38	33	29	32	27	24	25	22	20
7	57	45	37	31	52	41	34	29	35	29	25	29	25	21	23	20	18
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19807	19807	19807
5°	19856	19123	19094
10°	19680	18476	18287
15°	19406	17803	17406
20°	19092	17055	16532
25°	18686	16267	15600
30°	18242	15451	14618
35°	17776	14618	13643
40°	17290	13742	12683
45°	16754	12889	11681
50°	16209	11939	10675
55°	15510	10948	9656
60°	14789	9857	8571
65°	14113	8675	7440
70°	13140	7364	6120
75°	11735	5832	4751
80°	10136	4098	3361
85°	7905	2203	1682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.5	1.6
10°-20°	489.8	4.4
20°-30°	723.4	6.6
30°-40°	844.9	7.7
40°-50°	849.4	7.7
50°-60°	746.1	6.8
60°-70°	555.7	5.0
70°-80°	316.2	2.9
80°-90°	94.0	0.9
90°-100°	72.3	0.7
100°-110°	349.6	3.2
110°-120°	856.7	7.8
120°-130°	1087.5	9.8
130°-140°	1161.8	10.5
140°-150°	1086.4	9.8
150°-160°	876.3	7.9
160°-170°	565.5	5.1
170°-180°	194.9	1.8
0°-30°	1386.7	12.6
0°-40°	2231.6	20.2
0°-60°	3827.2	34.7
0°-90°	4793.1	43.4
90°-120°	1278.6	11.6
90°-150°	4614.2	41.8
90°-180°	6251.0	56.6
0°-180°	11044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1840	1840	1840	1840	1840	
5°	1842	1834	1816	1832	1829	175
15°	1753	1747	1726	1739	1729	494
25°	1592	1582	1562	1563	1558	733
35°	1376	1367	1346	1337	1329	861
45°	1128	1122	1101	1082	1074	871
55°	856	854	834	816	808	767
65°	584	576	560	547	543	576
75°	308	302	298	290	285	330
85°	82	79	79	76	76	88
90°	2	17	37	43	46	11
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1840.1	1840.1	1840.1	1840.1	1840.1
2.5°	1848.0	1841.7	1824.3	1840.1	1838.5
5°	1841.7	1833.8	1816.4	1832.2	1829.0
7.5°	1827.5	1819.5	1802.1	1816.4	1814.8
10°	1808.5	1800.6	1780.0	1794.2	1791.1
12.5°	1783.2	1776.8	1757.8	1767.3	1765.7
15°	1753.1	1746.8	1726.2	1738.9	1729.4
17.5°	1719.9	1712.0	1691.4	1700.9	1697.7
20°	1681.9	1672.4	1651.8	1658.2	1653.4
22.5°	1639.2	1629.7	1609.1	1613.9	1607.5
25°	1591.7	1582.2	1561.6	1563.2	1558.5
27.5°	1542.7	1533.2	1511.0	1512.6	1507.8
30°	1488.9	1481.0	1458.8	1458.8	1447.7
32.5°	1435.1	1424.0	1408.2	1397.1	1392.3
35°	1376.5	1367.0	1346.5	1337.0	1329.1
37.5°	1318.0	1305.3	1284.8	1273.7	1268.9
40°	1256.3	1246.8	1224.6	1212.0	1205.6
42.5°	1194.6	1183.5	1161.3	1148.7	1142.4
45°	1128.1	1121.8	1101.2	1082.2	1074.3
47.5°	1063.2	1053.8	1034.8	1015.8	1009.5
50°	996.8	988.9	968.3	950.9	941.4
52.5°	927.2	922.4	900.3	886.0	876.5
55°	856.0	854.4	833.8	816.4	808.5
57.5°	789.5	783.2	767.4	751.6	742.1
60°	716.7	715.2	696.2	681.9	674.0
62.5°	651.9	647.1	628.1	613.9	609.2
65°	583.8	575.9	560.1	547.4	542.7
67.5°	511.1	504.7	492.1	481.0	474.7
70°	446.2	436.7	427.2	416.1	408.2
72.5°	378.1	371.8	360.7	351.3	348.1
75°	308.5	302.2	297.5	289.5	284.8
77.5°	246.8	243.7	237.3	231.0	231.0
80°	186.7	182.0	178.8	177.2	177.2
82.5°	128.2	128.2	128.2	125.0	123.4
85°	82.3	79.1	79.1	75.9	75.9
87.5°	41.1	36.4	34.8	33.2	33.2
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

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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)