

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: P1032124

Luminaire Tested: S123RDIW-B1165D1535UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032124
REPORT IS A COMBINATION OF REPORTS P994050 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1165D1535UB30-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

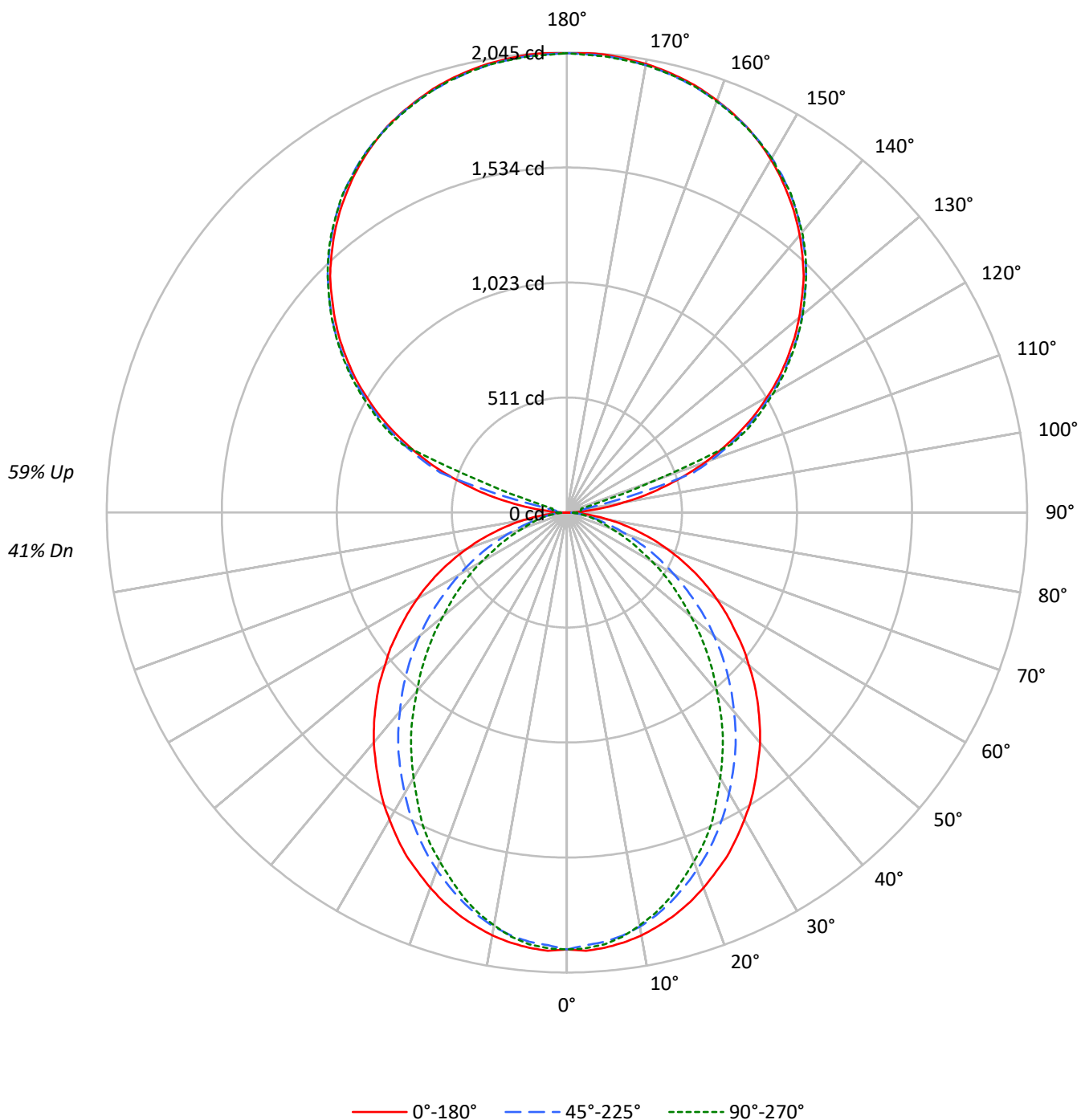
Lumens per Lamp: N/A
Luminaire Lumens: 10617.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26
5	67	56	48	42	61	52	45	40	43	38	34	35	31	28	28	25	23
6	62	50	43	37	57	46	39	34	39	34	30	32	28	25	25	22	20
7	57	46	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	34	29	49	38	31	27	32	27	23	26	23	20	21	18	16
9	50	38	30	25	45	35	28	24	29	24	21	24	21	18	20	17	15
10	46	35	28	23	42	32	26	21	27	22	19	23	19	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20907	20907	20907
5°	20941	20167	20112
10°	20776	19408	19026
15°	20506	18472	17837
20°	20152	17453	16507
25°	19787	16393	15248
30°	19319	15266	13759
35°	18838	14159	12402
40°	18384	12958	10904
45°	17804	11782	9558
50°	17162	10527	8164
55°	16498	9184	6885
60°	15862	7805	5589
65°	15041	6392	4362
70°	14009	4834	3117
75°	12523	3274	2471
80°	10690	2274	1733
85°	8021	1228	909

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17804 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	1.7
10°-20°	507.9	4.8
20°-30°	731.3	6.9
30°-40°	823.6	7.8
40°-50°	787.8	7.4
50°-60°	644.9	6.1
60°-70°	434.8	4.1
70°-80°	218.1	2.1
80°-90°	61.1	0.6
90°-100°	72.0	0.7
100°-110°	348.1	3.3
110°-120°	853.1	8.0
120°-130°	1083.0	10.2
130°-140°	1156.9	10.9
140°-150°	1081.9	10.2
150°-160°	872.6	8.2
160°-170°	563.2	5.3
170°-180°	194.1	1.8
0°-30°	1421.8	13.4
0°-40°	2245.4	21.1
0°-60°	3678.1	34.6
0°-90°	4392.1	41.4
90°-120°	1273.3	12.0
90°-150°	4595.1	43.3
90°-180°	6225.0	58.6
0°-180°	10617.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1942	1934	1916	1930	1926	184
15°	1852	1835	1791	1783	1772	522
25°	1686	1646	1574	1541	1523	775
35°	1459	1402	1304	1237	1208	913
45°	1199	1128	1007	917	879	925
55°	910	833	699	608	576	817
65°	622	536	413	336	318	616
75°	329	254	167	151	148	351
85°	84	49	44	41	41	91
90°	2	17	36	42	46	10
95°	92	30	47	58	58	111
105°	452	469	332	64	67	479
115°	848	857	871	886	892	837
125°	1195	1208	1214	1217	1220	1068
135°	1488	1497	1503	1508	1503	1146
145°	1717	1728	1731	1734	1734	1075
155°	1892	1889	1890	1898	1889	872
165°	1995	1990	1989	2001	1990	564
175°	2042	2034	2036	2046	2034	194
180°	2042	2042	2042	2042	2042	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1942.3	1942.3	1942.3	1942.3	1942.3
2.5°	1950.2	1943.9	1925.0	1942.3	1939.1
5°	1942.3	1934.4	1915.5	1929.7	1926.5
7.5°	1928.1	1920.2	1896.6	1906.1	1901.3
10°	1909.2	1898.2	1869.8	1871.4	1863.5
12.5°	1882.4	1869.8	1833.6	1832.0	1822.6
15°	1852.5	1835.2	1791.1	1783.2	1772.2
17.5°	1816.3	1797.4	1742.2	1726.5	1710.7
20°	1775.3	1750.1	1690.3	1669.8	1650.9
22.5°	1729.6	1699.7	1635.1	1608.3	1591.0
25°	1685.5	1646.2	1573.7	1540.6	1523.3
27.5°	1632.0	1589.4	1510.7	1466.6	1439.8
30°	1576.8	1529.6	1441.4	1387.8	1362.6
32.5°	1521.7	1466.6	1372.1	1312.2	1285.4
35°	1458.7	1402.0	1304.3	1236.6	1208.2
37.5°	1395.7	1334.2	1231.9	1156.2	1121.6
40°	1335.8	1266.5	1154.7	1072.8	1036.5
42.5°	1268.1	1198.8	1082.2	990.8	959.3
45°	1198.8	1127.9	1006.6	916.8	879.0
47.5°	1131.0	1052.3	932.6	834.9	801.8
50°	1055.4	981.4	853.8	756.1	719.9
52.5°	987.7	905.8	779.8	677.4	645.9
55°	910.5	833.3	699.4	608.1	576.5
57.5°	841.2	757.7	622.2	535.6	508.8
60°	768.7	682.1	551.3	466.3	439.5
62.5°	696.3	609.6	478.9	400.1	371.8
65°	622.2	535.6	412.7	335.5	318.2
67.5°	548.2	460.0	340.3	282.0	263.1
70°	475.7	390.7	280.4	225.3	207.9
72.5°	403.3	319.8	222.1	179.6	174.9
75°	329.2	253.6	167.0	151.2	148.1
77.5°	261.5	192.2	130.7	121.3	118.1
80°	196.9	132.3	99.2	94.5	91.4
82.5°	135.5	81.9	70.9	66.2	66.2
85°	83.5	48.8	44.1	41.0	41.0
87.5°	37.8	20.5	20.5	18.9	17.3
90°	1.5	16.7	36.4	42.5	45.5
92.5°	34.9	25.8	39.4	50.1	51.6
95°	92.5	30.3	47.0	57.6	57.6
97.5°	168.4	125.9	48.5	60.7	62.2
100°	256.4	286.7	50.1	62.2	63.7
102.5°	356.5	376.2	112.3	62.2	65.2
105°	452.1	468.8	332.2	63.7	66.7
107.5°	553.7	567.4	590.1	356.5	157.8
110°	655.4	667.5	684.2	634.1	417.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	752.4	763.1	779.7	793.4	790.4
115°	848.0	857.1	870.8	885.9	892.0
117.5°	942.1	952.7	960.3	972.4	973.9
120°	1028.5	1042.2	1046.7	1058.9	1058.9
122.5°	1116.5	1127.1	1133.2	1140.8	1142.3
125°	1195.4	1207.5	1213.6	1216.6	1219.7
127.5°	1274.3	1286.4	1294.0	1298.6	1295.5
130°	1347.1	1359.2	1365.3	1371.4	1368.3
132.5°	1416.9	1429.0	1433.6	1439.6	1435.1
135°	1488.2	1497.3	1503.4	1507.9	1503.4
137.5°	1548.9	1561.0	1564.0	1571.6	1568.6
140°	1609.6	1618.7	1623.2	1629.3	1626.2
142.5°	1665.7	1674.8	1679.3	1683.9	1679.3
145°	1717.3	1727.9	1730.9	1734.0	1734.0
147.5°	1767.3	1774.9	1777.9	1781.0	1773.4
150°	1812.8	1817.4	1820.4	1823.5	1818.9
152.5°	1853.8	1855.3	1856.8	1862.9	1855.3
155°	1891.7	1888.7	1890.2	1897.8	1888.7
157.5°	1922.1	1922.1	1920.5	1929.6	1917.5
160°	1949.4	1947.9	1946.3	1955.4	1944.8
162.5°	1975.2	1970.6	1969.1	1979.7	1970.6
165°	1994.9	1990.3	1988.8	2000.9	1990.3
167.5°	2011.6	2005.5	2005.5	2017.6	2005.5
170°	2025.2	2019.2	2019.2	2031.3	2019.2
172.5°	2034.3	2026.7	2028.3	2040.4	2026.7
175°	2041.9	2034.3	2035.8	2046.5	2034.3
177.5°	2044.9	2037.4	2038.9	2051.0	2035.8
180°	2041.9	2041.9	2041.9	2041.9	2041.9

(END OF REPORT)