

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: P1032125

Luminaire Tested: S123RDIW-B1165D1535UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032125
REPORT IS A COMBINATION OF REPORTS P994051 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-F1
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

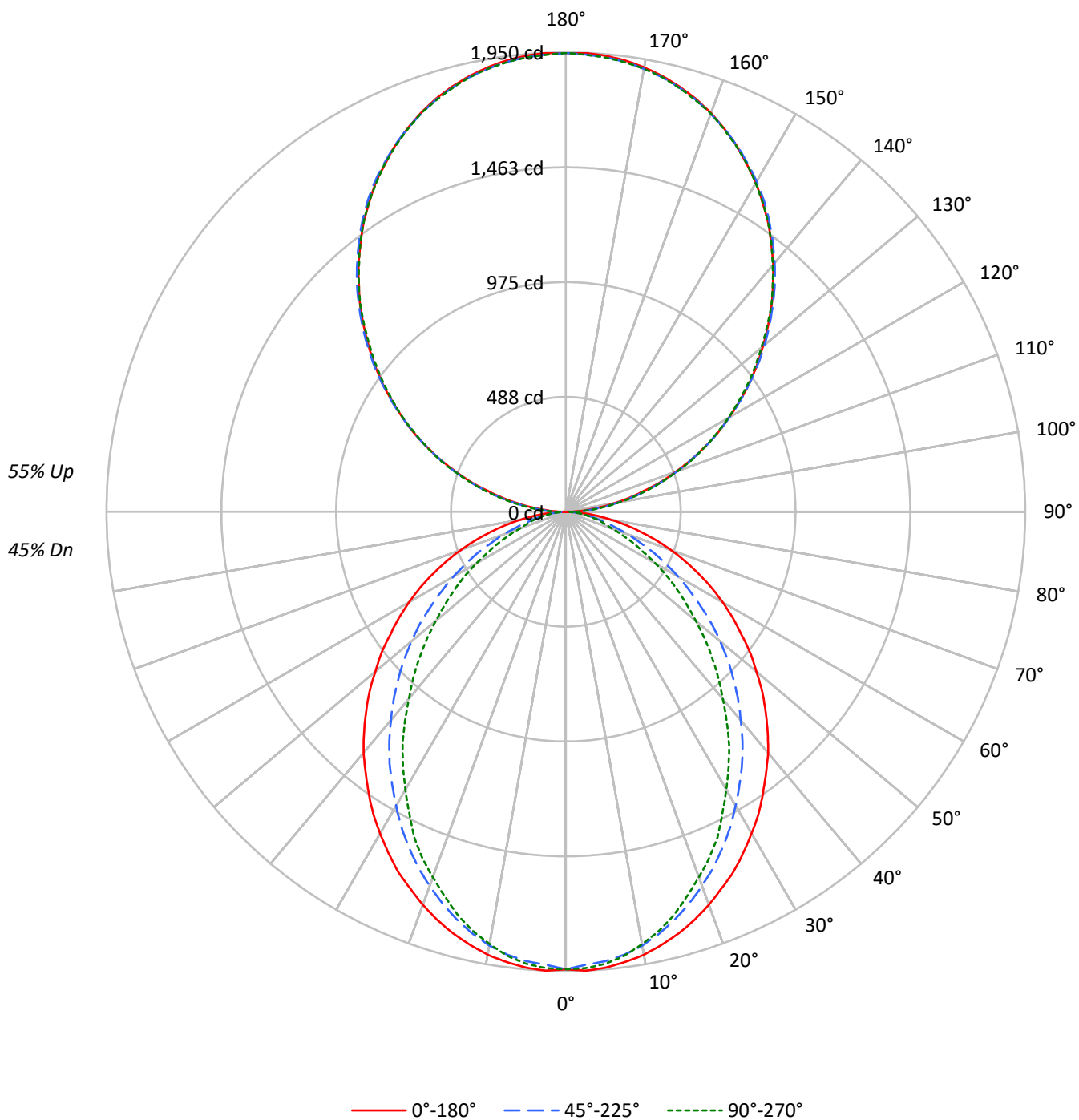
Lumens per Lamp: N/A
Luminaire Lumens: 9789.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51			45
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44			38
2	88	81	75	70	81	75	70	65	63	59	56	51	49	46	41	39	37			33
3	81	72	65	59	74	66	60	55	55	51	47	45	42	40	36	34	32			28
4	74	64	56	50	68	59	52	47	49	44	40	41	37	34	33	30	28			24
5	68	57	49	43	62	52	45	40	44	39	35	37	33	30	30	27	25			21
6	63	51	43	37	57	47	40	35	40	35	31	33	29	26	27	24	22			19
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19			17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17			15
9	50	38	31	26	46	36	29	24	30	25	22	25	21	19	21	18	16			14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	19	16	14			12

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	1.9
10°-20°	507.9	5.2
20°-30°	731.3	7.5
30°-40°	823.6	8.4
40°-50°	787.8	8.0
50°-60°	644.9	6.6
60°-70°	434.8	4.4
70°-80°	218.1	2.2
80°-90°	61.1	0.6
90°-100°	125.4	1.3
100°-110°	379.5	3.9
110°-120°	646.1	6.6
120°-130°	849.9	8.7
130°-140°	955.3	9.8
140°-150°	939.2	9.6
150°-160°	790.7	8.1
160°-170°	526.4	5.4
170°-180°	184.3	1.9
0°-30°	1421.8	14.5
0°-40°	2245.4	22.9
0°-60°	3678.1	37.6
0°-90°	4392.1	44.9
90°-120°	1150.9	11.8
90°-150°	3895.4	39.8
90°-180°	5397.0	55.1
0°-180°	9789.0	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	37	43	46	12
95°	90	101	113	119	119	99
105°	344	347	361	361	364	369
115°	650	655	652	653	652	644
125°	952	956	953	947	941	849
135°	1235	1244	1242	1236	1233	951
145°	1498	1501	1506	1504	1498	936
155°	1715	1715	1717	1723	1712	790
165°	1868	1864	1864	1873	1862	527
175°	1943	1937	1937	1946	1936	185
180°	1948	1948	1948	1948	1948	

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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	16.8	36.7	42.8	45.9
92.5°	45.9	55.1	64.3	68.9	65.8
95°	90.3	101.0	113.2	119.3	119.3
97.5°	148.4	156.1	165.2	172.9	171.4
100°	208.1	217.3	224.9	229.5	232.6
102.5°	276.9	281.5	292.2	296.8	295.3
105°	344.3	347.3	361.1	361.1	364.2
107.5°	423.8	425.4	431.5	436.1	434.5
110°	497.3	500.3	503.4	509.5	506.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	573.8	575.3	575.3	583.0	583.0
115°	650.3	654.9	651.8	653.3	651.8
117.5°	728.3	729.8	726.8	726.8	722.2
120°	800.2	809.4	801.7	800.2	797.2
122.5°	875.2	881.3	878.3	873.7	869.1
125°	951.7	956.3	953.2	947.1	941.0
127.5°	1022.1	1031.3	1028.2	1019.0	1012.9
130°	1092.5	1104.7	1100.1	1094.0	1083.3
132.5°	1162.8	1175.1	1172.0	1164.4	1156.7
135°	1234.8	1243.9	1242.4	1236.3	1233.2
137.5°	1300.5	1308.2	1312.8	1305.1	1300.5
140°	1369.4	1377.0	1378.6	1377.0	1366.3
142.5°	1432.1	1439.8	1442.8	1441.3	1433.7
145°	1497.9	1501.0	1505.6	1504.0	1497.9
147.5°	1554.5	1560.7	1565.2	1565.2	1556.1
150°	1614.2	1617.3	1620.3	1620.3	1611.1
152.5°	1663.2	1667.8	1669.3	1672.3	1664.7
155°	1715.2	1715.2	1716.7	1722.8	1712.1
157.5°	1759.6	1758.0	1759.6	1765.7	1756.5
160°	1800.9	1797.8	1797.8	1805.5	1799.3
162.5°	1837.6	1833.0	1834.5	1842.2	1831.5
165°	1868.2	1863.6	1863.6	1872.8	1862.1
167.5°	1894.2	1888.1	1889.6	1898.8	1889.6
170°	1915.6	1909.5	1909.5	1920.2	1909.5
172.5°	1932.5	1926.3	1926.3	1935.5	1924.8
175°	1943.2	1937.0	1937.0	1946.2	1935.5
177.5°	1949.3	1943.2	1943.2	1952.3	1941.6
180°	1947.8	1947.8	1947.8	1947.8	1947.8

(END OF REPORT)