

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: P1031090

Luminaire Tested: S123RDIW-B1165D1535UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031090
REPORT IS A COMBINATION OF REPORTS P994042 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1165D1535UB2750-4F0-XX-W2A-F_2700K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

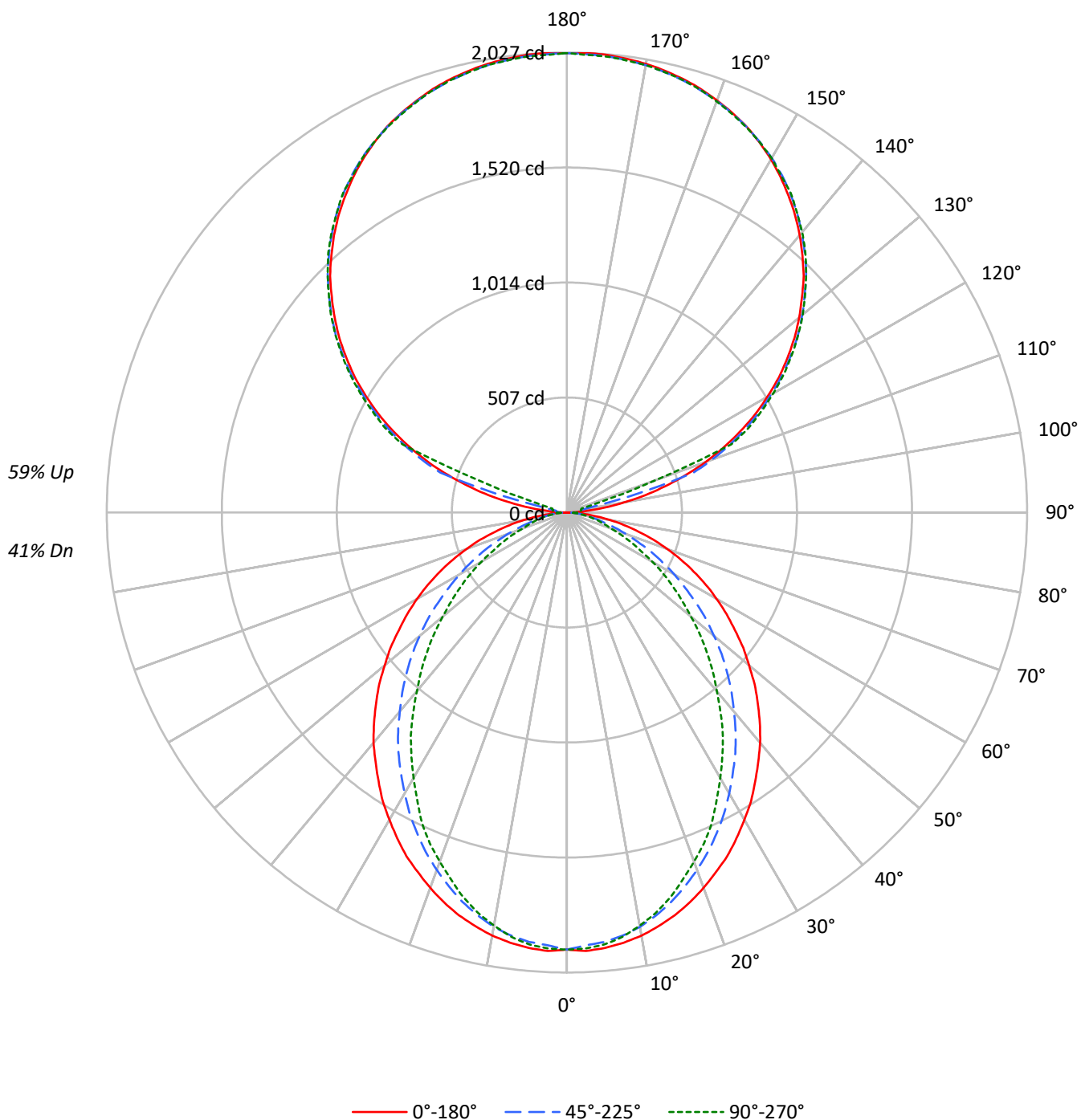
Lumens per Lamp: N/A
Luminaire Lumens: 10526.0 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48			41
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41			35
2	88	81	75	70	80	74	69	64	61	57	54	49	47	44	38	37	35			30
3	80	71	64	58	73	65	59	54	54	49	46	44	40	38	34	32	30			26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26			22
5	67	56	48	42	61	52	45	40	43	38	34	35	31	28	28	25	23			20
6	62	50	43	37	57	46	39	34	39	34	30	32	28	25	25	22	20			17
7	57	46	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18			15
8	53	41	34	29	49	38	31	27	32	27	23	26	23	20	21	18	16			14
9	50	38	30	25	45	35	28	24	29	24	21	24	21	18	20	17	15			13
10	46	35	28	23	42	32	26	21	27	22	19	23	19	16	18	15	13			11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20730	20730	20730
5°	20764	19997	19943
10°	20601	19245	18866
15°	20334	18316	17686
20°	19983	17305	16368
25°	19621	16255	15119
30°	19156	15137	13642
35°	18679	14040	12298
40°	18230	12848	10813
45°	17654	11683	9477
50°	17017	10438	8094
55°	16358	9106	6828
60°	15727	7740	5542
65°	14915	6338	4325
70°	13891	4792	3092
75°	12420	3246	2449
80°	10597	2255	1718
85°	7953	1217	900

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17654 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	1.7
10°-20°	503.7	4.8
20°-30°	725.2	6.9
30°-40°	816.6	7.8
40°-50°	781.2	7.4
50°-60°	639.4	6.1
60°-70°	431.1	4.1
70°-80°	216.2	2.1
80°-90°	60.6	0.6
90°-100°	71.4	0.7
100°-110°	345.1	3.3
110°-120°	845.7	8.0
120°-130°	1073.6	10.2
130°-140°	1146.9	10.9
140°-150°	1072.5	10.2
150°-160°	865.1	8.2
160°-170°	558.3	5.3
170°-180°	192.4	1.8
0°-30°	1409.9	13.4
0°-40°	2226.5	21.2
0°-60°	3647.1	34.6
0°-90°	4355.0	41.4
90°-120°	1262.2	12.0
90°-150°	4555.2	43.3
90°-180°	6171.0	58.6
0°-180°	10526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1926	1918	1899	1913	1910	183
15°	1837	1820	1776	1768	1757	518
25°	1671	1632	1560	1528	1510	769
35°	1446	1390	1293	1226	1198	905
45°	1189	1118	998	909	872	917
55°	903	826	694	603	572	810
65°	617	531	409	333	316	611
75°	326	252	166	150	147	348
85°	83	48	44	41	41	91
90°	2	16	36	42	45	10
95°	92	30	47	57	57	110
105°	448	465	329	63	66	475
115°	841	850	863	878	884	830
125°	1185	1197	1203	1206	1209	1059
135°	1475	1484	1490	1495	1490	1136
145°	1702	1713	1716	1719	1719	1066
155°	1875	1872	1874	1881	1872	864
165°	1978	1973	1972	1984	1973	559
175°	2024	2017	2018	2029	2017	193
180°	2024	2024	2024	2024	2024	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1925.9	1925.9	1925.9	1925.9	1925.9
2.5°	1933.7	1927.5	1908.7	1925.9	1922.8
5°	1925.9	1918.1	1899.4	1913.4	1910.3
7.5°	1911.9	1904.1	1880.6	1890.0	1885.3
10°	1893.1	1882.2	1854.1	1855.6	1847.8
12.5°	1866.6	1854.1	1818.1	1816.6	1807.2
15°	1836.9	1819.7	1776.0	1768.2	1757.2
17.5°	1801.0	1782.2	1727.6	1711.9	1696.3
20°	1760.4	1735.4	1676.0	1655.7	1637.0
22.5°	1715.1	1685.4	1621.3	1594.8	1577.6
25°	1671.3	1632.3	1560.4	1527.6	1510.4
27.5°	1618.2	1576.0	1497.9	1454.2	1427.7
30°	1563.5	1516.7	1429.2	1376.1	1351.1
32.5°	1508.9	1454.2	1360.5	1301.1	1274.6
35°	1446.4	1390.2	1293.3	1226.2	1198.0
37.5°	1383.9	1323.0	1221.5	1146.5	1112.1
40°	1324.6	1255.8	1144.9	1063.7	1027.8
42.5°	1257.4	1188.7	1073.1	982.5	951.2
45°	1188.7	1118.4	998.1	909.1	871.6
47.5°	1121.5	1043.4	924.7	827.8	795.0
50°	1046.5	973.1	846.6	749.8	713.8
52.5°	979.4	898.1	773.2	671.7	640.4
55°	902.8	826.3	693.5	602.9	571.7
57.5°	834.1	751.3	617.0	531.1	504.5
60°	762.2	676.3	546.7	462.3	435.8
62.5°	690.4	604.5	474.8	396.7	368.6
65°	617.0	531.1	409.2	332.7	315.5
67.5°	543.6	456.1	337.4	279.6	260.9
70°	471.7	387.4	278.0	223.4	206.2
72.5°	399.9	317.1	220.2	178.1	173.4
75°	326.5	251.5	165.6	150.0	146.8
77.5°	259.3	190.6	129.6	120.3	117.1
80°	195.2	131.2	98.4	93.7	90.6
82.5°	134.3	81.2	70.3	65.6	65.6
85°	82.8	48.4	43.7	40.6	40.6
87.5°	37.5	20.3	20.3	18.7	17.2
90°	1.5	16.5	36.1	42.1	45.1
92.5°	34.6	25.6	39.1	49.6	51.1
95°	91.7	30.1	46.6	57.1	57.1
97.5°	166.9	124.8	48.1	60.2	61.7
100°	254.2	284.2	49.6	61.7	63.2
102.5°	353.4	373.0	111.3	61.7	64.7
105°	448.2	464.7	329.3	63.2	66.2
107.5°	548.9	562.4	585.0	353.4	156.4
110°	649.7	661.7	678.2	628.6	413.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	745.9	756.4	773.0	786.5	783.5
115°	840.7	849.7	863.2	878.3	884.3
117.5°	933.9	944.4	951.9	964.0	965.5
120°	1019.6	1033.2	1037.7	1049.7	1049.7
122.5°	1106.8	1117.4	1123.4	1130.9	1132.4
125°	1185.0	1197.1	1203.1	1206.1	1209.1
127.5°	1263.2	1275.3	1282.8	1287.3	1284.3
130°	1335.4	1347.5	1353.5	1359.5	1356.5
132.5°	1404.6	1416.6	1421.2	1427.2	1422.7
135°	1475.3	1484.3	1490.3	1494.8	1490.3
137.5°	1535.4	1547.5	1550.5	1558.0	1555.0
140°	1595.6	1604.6	1609.1	1615.2	1612.1
142.5°	1651.2	1660.3	1664.8	1669.3	1664.8
145°	1702.4	1712.9	1715.9	1718.9	1718.9
147.5°	1752.0	1759.5	1762.5	1765.5	1758.0
150°	1797.1	1801.6	1804.6	1807.6	1803.1
152.5°	1837.7	1839.2	1840.7	1846.7	1839.2
155°	1875.3	1872.3	1873.8	1881.3	1872.3
157.5°	1905.4	1905.4	1903.9	1912.9	1900.9
160°	1932.5	1931.0	1929.5	1938.5	1928.0
162.5°	1958.0	1953.5	1952.0	1962.5	1953.5
165°	1977.6	1973.1	1971.6	1983.6	1973.1
167.5°	1994.1	1988.1	1988.1	2000.1	1988.1
170°	2007.7	2001.6	2001.6	2013.7	2001.6
172.5°	2016.7	2009.2	2010.7	2022.7	2009.2
175°	2024.2	2016.7	2018.2	2028.7	2016.7
177.5°	2027.2	2019.7	2021.2	2033.2	2018.2
180°	2024.2	2024.2	2024.2	2024.2	2024.2

(END OF REPORT)