

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: P1031040

Luminaire Tested: S123RDIW-B1000D1535UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031040
REPORT IS A COMBINATION OF REPORTS P993822 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1000D1535UB2750-4F0-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

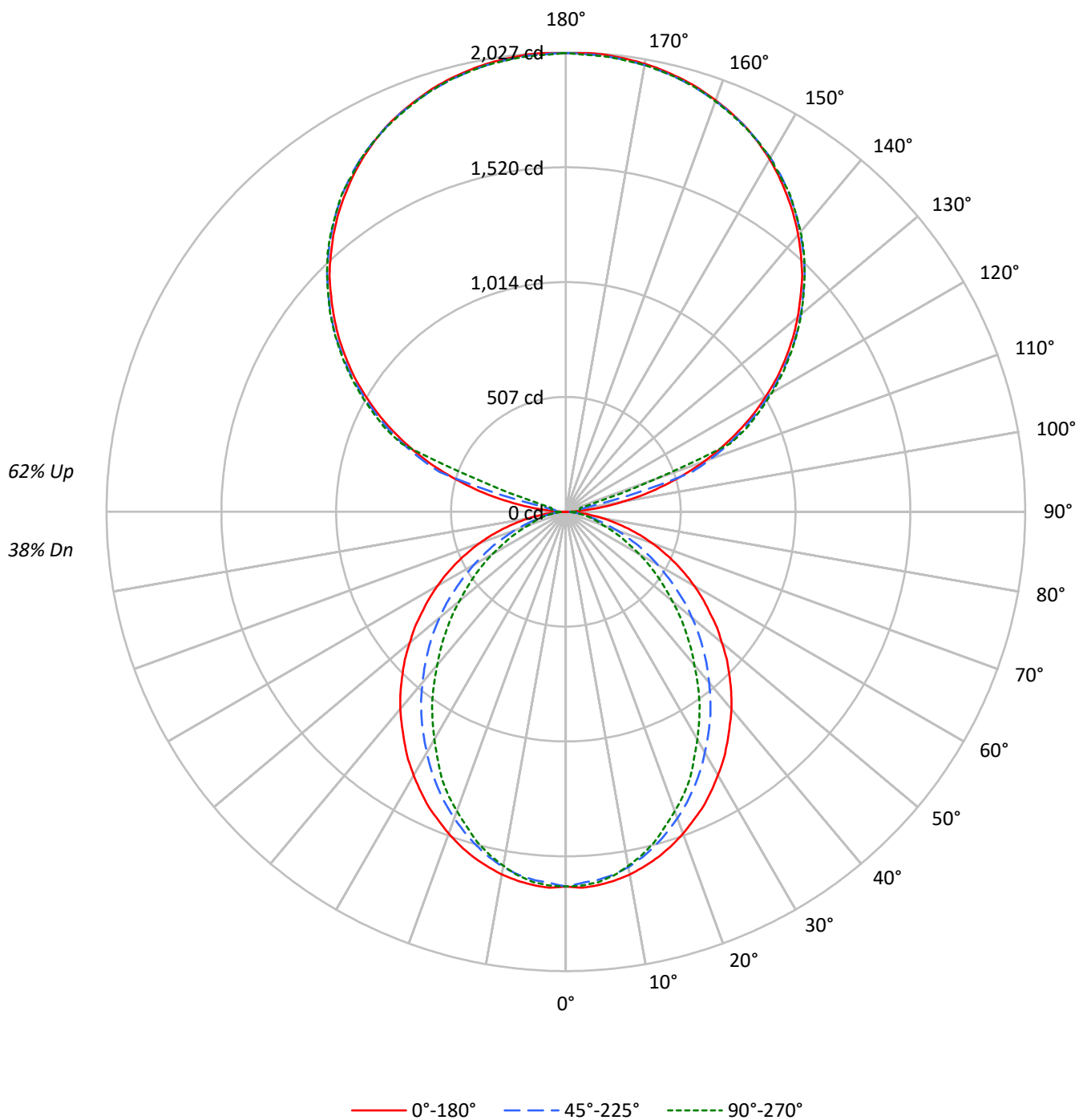
Lumens per Lamp: N/A
Luminaire Lumens: 9911.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 99
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45			38
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38			32
2	87	80	74	69	79	73	68	63	59	56	53	47	45	42	35	34	33			27
3	79	70	63	58	72	64	58	53	52	48	45	42	39	36	32	30	28			24
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	28	26	24			20
5	67	56	48	42	60	51	44	39	42	37	33	33	30	27	26	23	21			18
6	61	50	42	36	56	46	39	34	38	33	29	30	27	24	23	21	19			16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	21	19	17			14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	20	17	15			13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14			11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12			10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17800	17800	17800
5°	17829	17170	17124
10°	17689	16525	16199
15°	17460	15727	15186
20°	17158	14859	14055
25°	16848	13958	12981
30°	16449	12998	11714
35°	16039	12056	10560
40°	15652	11032	9284
45°	15159	10031	8138
50°	14612	8963	6950
55°	14046	7819	5863
60°	13505	6646	4759
65°	12807	5442	3714
70°	11927	4115	2654
75°	10662	2788	2104
80°	9099	1937	1475
85°	6829	1047	774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15159 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	1.6
10°-20°	432.5	4.4
20°-30°	622.7	6.3
30°-40°	701.2	7.1
40°-50°	670.7	6.8
50°-60°	549.1	5.5
60°-70°	370.2	3.7
70°-80°	185.7	1.9
80°-90°	52.6	0.5
90°-100°	71.4	0.7
100°-110°	345.1	3.5
110°-120°	845.7	8.5
120°-130°	1073.6	10.8
130°-140°	1146.9	11.6
140°-150°	1072.5	10.8
150°-160°	865.1	8.7
160°-170°	558.3	5.6
170°-180°	192.4	1.9
0°-30°	1210.6	12.2
0°-40°	1911.8	19.3
0°-60°	3131.6	31.6
0°-90°	3740.0	37.7
90°-120°	1262.2	12.7
90°-150°	4555.2	46.0
90°-180°	6171.0	62.3
0°-180°	9911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1654	1647	1631	1643	1640	157
15°	1577	1562	1525	1518	1509	444
25°	1435	1402	1340	1312	1297	660
35°	1242	1194	1110	1053	1029	777
45°	1021	960	857	781	748	788
55°	775	710	596	518	491	695
65°	530	456	351	286	271	524
75°	280	216	142	129	126	299
85°	71	42	38	35	35	78
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°	1653.7	1653.7	1653.7	1653.7	1653.7
2.5°	1660.4	1655.0	1638.9	1653.7	1651.0
5°	1653.7	1647.0	1630.9	1643.0	1640.3
7.5°	1641.6	1634.9	1614.8	1622.9	1618.8
10°	1625.5	1616.1	1592.0	1593.3	1586.6
12.5°	1602.7	1592.0	1561.2	1559.8	1551.8
15°	1577.3	1562.5	1524.9	1518.2	1508.8
17.5°	1546.4	1530.3	1483.4	1470.0	1456.5
20°	1511.5	1490.1	1439.1	1421.7	1405.6
22.5°	1472.6	1447.2	1392.2	1369.4	1354.6
25°	1435.1	1401.6	1339.9	1311.7	1296.9
27.5°	1389.5	1353.3	1286.2	1248.7	1225.9
30°	1342.5	1302.3	1227.2	1181.6	1160.1
32.5°	1295.6	1248.7	1168.2	1117.2	1094.4
35°	1242.0	1193.7	1110.5	1052.8	1028.7
37.5°	1188.3	1136.0	1048.8	984.4	954.9
40°	1137.3	1078.3	983.1	913.4	882.5
42.5°	1079.7	1020.7	921.4	843.6	816.8
45°	1020.7	960.3	857.0	780.6	748.4
47.5°	963.0	895.9	794.0	710.8	682.7
50°	898.6	835.6	726.9	643.8	612.9
52.5°	840.9	771.2	663.9	576.7	549.9
55°	775.2	709.5	595.5	517.7	490.9
57.5°	716.2	645.1	529.8	456.0	433.2
60°	654.5	580.7	469.4	397.0	374.2
62.5°	592.8	519.0	407.7	340.7	316.5
65°	529.8	456.0	351.4	285.7	270.9
67.5°	466.7	391.6	289.7	240.1	224.0
70°	405.0	332.6	238.7	191.8	177.0
72.5°	343.3	272.3	189.1	152.9	148.9
75°	280.3	215.9	142.2	128.8	126.1
77.5°	222.6	163.6	111.3	103.3	100.6
80°	167.6	112.7	84.5	80.5	77.8
82.5°	115.3	69.7	60.4	56.3	56.3
85°	71.1	41.6	37.6	34.9	34.9
87.5°	32.2	17.4	17.4	16.1	14.8
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)