

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: P1032025

Luminaire Tested: S123RDIW-B1000D1535UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032025
REPORT IS A COMBINATION OF REPORTS P993811 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1000D1535UB27-4F0-XX-W2A-F1
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

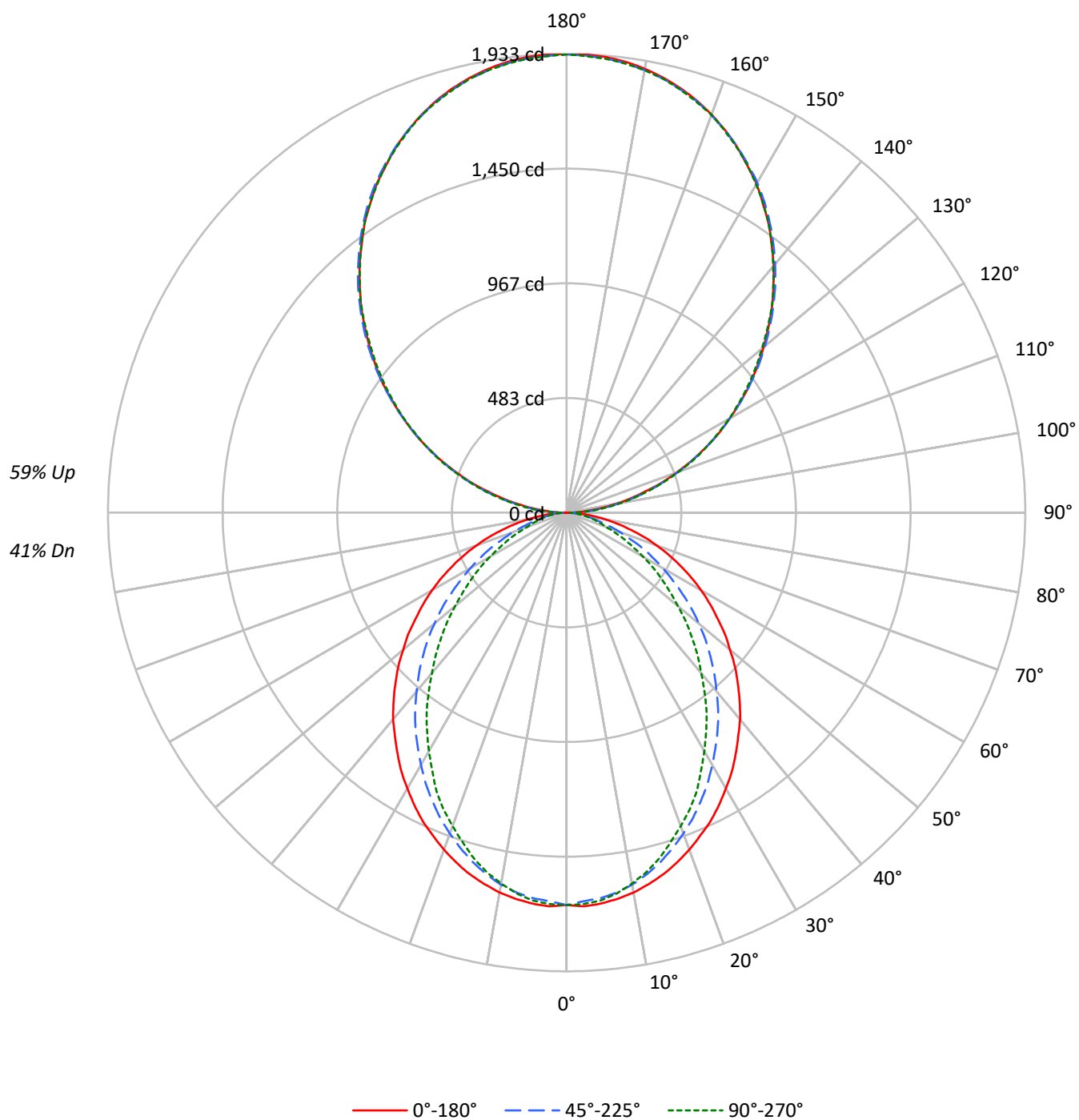
Lumens per Lamp: N/A
Luminaire Lumens: 9091.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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
RCR																	
0	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48
1	96	92	88	85	87	84	81	78	69	67	65	55	54	53	43	42	41
2	88	81	75	70	80	74	69	64	61	57	54	49	46	44	38	36	35
3	80	71	64	58	73	65	59	54	54	49	46	43	40	38	34	32	30
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	30	28	26
5	67	56	48	42	61	52	45	40	43	38	34	35	31	28	28	25	23
6	62	50	42	37	56	46	39	34	39	34	30	32	28	25	25	22	20
7	57	45	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	20	18	19	17	15
10	46	35	28	23	42	32	26	21	27	22	19	22	19	16	18	15	13

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	1.7
10°-20°	432.5	4.8
20°-30°	622.7	6.8
30°-40°	701.2	7.7
40°-50°	670.7	7.4
50°-60°	549.1	6.0
60°-70°	370.2	4.1
70°-80°	185.7	2.0
80°-90°	52.6	0.6
90°-100°	124.3	1.4
100°-110°	376.3	4.1
110°-120°	640.6	7.0
120°-130°	842.7	9.3
130°-140°	947.2	10.4
140°-150°	931.2	10.2
150°-160°	784.0	8.6
160°-170°	521.9	5.7
170°-180°	182.8	2.0
0°-30°	1210.6	13.3
0°-40°	1911.8	21.0
0°-60°	3131.6	34.4
0°-90°	3740.1	41.1
90°-120°	1141.1	12.6
90°-150°	3862.2	42.5
90°-180°	5351.0	58.9
0°-180°	9091.0	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	17	36	42	46	11
95°	90	100	112	118	118	99
105°	341	344	358	358	361	365
115°	645	649	646	648	646	638
125°	944	948	945	939	933	842
135°	1224	1233	1232	1226	1223	943
145°	1485	1488	1493	1491	1485	928
155°	1701	1701	1702	1708	1698	783
165°	1852	1848	1848	1857	1846	522
175°	1927	1920	1920	1930	1919	183
180°	1931	1931	1931	1931	1931	

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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	16.7	36.4	42.5	45.5
92.5°	45.5	54.6	63.7	68.3	65.2
95°	89.5	100.1	112.3	118.3	118.3
97.5°	147.2	154.7	163.8	171.4	169.9
100°	206.3	215.4	223.0	227.6	230.6
102.5°	274.6	279.1	289.8	294.3	292.8
105°	341.3	344.4	358.0	358.0	361.1
107.5°	420.2	421.7	427.8	432.4	430.8
110°	493.0	496.1	499.1	505.2	502.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	568.9	570.4	570.4	578.0	578.0
115°	644.7	649.3	646.3	647.8	646.3
117.5°	722.1	723.6	720.6	720.6	716.0
120°	793.4	802.5	794.9	793.4	790.4
122.5°	867.7	873.8	870.8	866.2	861.7
125°	943.6	948.1	945.1	939.0	933.0
127.5°	1013.4	1022.5	1019.4	1010.3	1004.3
130°	1083.2	1095.3	1090.7	1084.7	1074.1
132.5°	1152.9	1165.1	1162.0	1154.5	1146.9
135°	1224.2	1233.3	1231.8	1225.8	1222.7
137.5°	1289.5	1297.1	1301.6	1294.0	1289.5
140°	1357.7	1365.3	1366.8	1365.3	1354.7
142.5°	1419.9	1427.5	1430.6	1429.0	1421.4
145°	1485.2	1488.2	1492.7	1491.2	1485.2
147.5°	1541.3	1547.4	1551.9	1551.9	1542.8
150°	1600.5	1603.5	1606.5	1606.5	1597.4
152.5°	1649.0	1653.6	1655.1	1658.1	1650.5
155°	1700.6	1700.6	1702.1	1708.2	1697.5
157.5°	1744.6	1743.1	1744.6	1750.6	1741.5
160°	1785.5	1782.5	1782.5	1790.1	1784.0
162.5°	1821.9	1817.4	1818.9	1826.5	1815.9
165°	1852.3	1847.7	1847.7	1856.8	1846.2
167.5°	1878.1	1872.0	1873.5	1882.6	1873.5
170°	1899.3	1893.2	1893.2	1903.9	1893.2
172.5°	1916.0	1909.9	1909.9	1919.0	1908.4
175°	1926.6	1920.5	1920.5	1929.7	1919.0
177.5°	1932.7	1926.6	1926.6	1935.7	1925.1
180°	1931.2	1931.2	1931.2	1931.2	1931.2

(END OF REPORT)