

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: P1031338

Luminaire Tested: S123DIW-B1000D1535UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031338
REPORT IS A COMBINATION OF REPORTS P990697 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1000D1535UB35-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

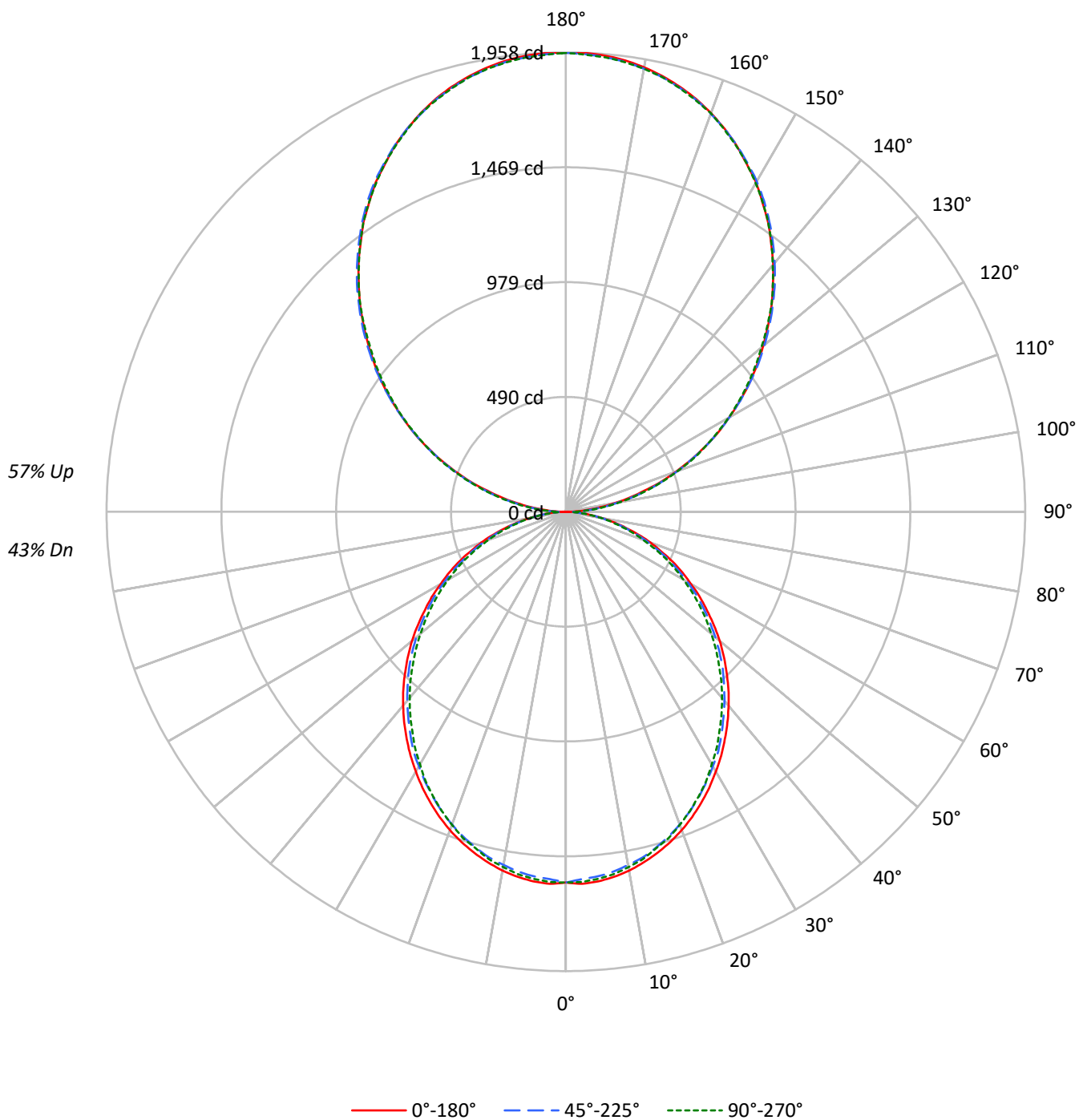
Lumens per Lamp: N/A
Luminaire Lumens: 9537.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42
2	88	80	74	69	80	74	68	64	61	57	54	49	47	44	39	37	35
3	80	70	63	57	73	65	58	53	54	49	45	44	40	37	34	32	30
4	73	62	54	48	66	57	50	45	48	43	38	39	35	32	31	28	26
5	67	55	47	41	61	51	44	39	43	37	33	35	31	28	28	25	22
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20
7	57	45	37	31	52	41	34	29	35	29	25	29	24	21	23	20	18
8	53	41	33	28	48	38	31	26	32	26	22	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17011	17011	17011
5°	17053	16424	16400
10°	16902	15868	15705
15°	16666	15289	14948
20°	16397	14649	14199
25°	16048	13971	13398
30°	15667	13270	12555
35°	15267	12554	11718
40°	14848	11803	10894
45°	14389	11071	10033
50°	13921	10253	9168
55°	13321	9403	8294
60°	12702	8465	7362
65°	12121	7450	6390
70°	11285	6325	5257
75°	10080	5009	4081
80°	8703	3521	2886
85°	6791	1891	1445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14389 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	1.6
10°-20°	420.7	4.4
20°-30°	621.3	6.5
30°-40°	725.6	7.6
40°-50°	729.5	7.6
50°-60°	640.8	6.7
60°-70°	477.3	5.0
70°-80°	271.6	2.8
80°-90°	81.3	0.9
90°-100°	125.9	1.3
100°-110°	381.1	4.0
110°-120°	648.8	6.8
120°-130°	853.5	8.9
130°-140°	959.4	10.1
140°-150°	943.2	9.9
150°-160°	794.1	8.3
160°-170°	528.7	5.5
170°-180°	185.1	1.9
0°-30°	1191.0	12.5
0°-40°	1916.6	20.1
0°-60°	3286.9	34.5
0°-90°	4117.1	43.2
90°-120°	1155.8	12.1
90°-150°	3912.0	41.0
90°-180°	5420.0	56.8
0°-180°	9537.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1582	1575	1560	1574	1571	150
15°	1506	1500	1482	1493	1485	425
25°	1367	1359	1341	1343	1338	630
35°	1182	1174	1156	1148	1142	740
45°	969	963	946	930	923	748
55°	735	734	716	701	694	659
65°	501	495	481	470	466	495
75°	265	260	256	249	245	283
85°	71	68	68	65	65	76
90°	2	17	37	43	46	12
95°	91	101	114	120	120	100
105°	346	349	363	363	366	370
115°	653	658	655	656	655	646
125°	956	960	957	951	945	852
135°	1240	1249	1248	1242	1238	955
145°	1504	1507	1512	1510	1504	940
155°	1722	1722	1724	1730	1719	793
165°	1876	1872	1872	1881	1870	529
175°	1951	1945	1945	1954	1944	185
180°	1956	1956	1956	1956	1956	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.4	1580.4	1580.4	1580.4	1580.4
2.5°	1587.2	1581.7	1566.8	1580.4	1579.0
5°	1581.7	1574.9	1560.0	1573.6	1570.9
7.5°	1569.5	1562.7	1547.8	1560.0	1558.6
10°	1553.2	1546.4	1528.7	1541.0	1538.2
12.5°	1531.4	1526.0	1509.7	1517.9	1516.5
15°	1505.6	1500.2	1482.5	1493.4	1485.2
17.5°	1477.1	1470.3	1452.6	1460.8	1458.1
20°	1444.5	1436.3	1418.7	1424.1	1420.0
22.5°	1407.8	1399.6	1382.0	1386.1	1380.6
25°	1367.0	1358.9	1341.2	1342.6	1338.5
27.5°	1324.9	1316.7	1297.7	1299.1	1295.0
30°	1278.7	1271.9	1252.9	1252.9	1243.4
32.5°	1232.5	1223.0	1209.4	1199.9	1195.8
35°	1182.2	1174.1	1156.4	1148.2	1141.5
37.5°	1131.9	1121.1	1103.4	1093.9	1089.8
40°	1078.9	1070.8	1051.8	1040.9	1035.5
42.5°	1025.9	1016.4	997.4	986.5	981.1
45°	968.9	963.4	945.8	929.5	922.7
47.5°	913.2	905.0	888.7	872.4	867.0
50°	856.1	849.3	831.6	816.7	808.5
52.5°	796.3	792.2	773.2	761.0	752.8
55°	735.2	733.8	716.1	701.2	694.4
57.5°	678.1	672.6	659.1	645.5	637.3
60°	615.6	614.2	597.9	585.7	578.9
62.5°	559.9	555.8	539.5	527.2	523.2
65°	501.4	494.6	481.0	470.2	466.1
67.5°	438.9	433.5	422.6	413.1	407.7
70°	383.2	375.0	366.9	357.4	350.6
72.5°	324.8	319.3	309.8	301.7	299.0
75°	265.0	259.5	255.5	248.7	244.6
77.5°	212.0	209.3	203.8	198.4	198.4
80°	160.3	156.3	153.6	152.2	152.2
82.5°	110.1	110.1	110.1	107.4	106.0
85°	70.7	67.9	67.9	65.2	65.2
87.5°	35.3	31.3	29.9	28.5	28.5
90°	1.5	16.9	36.9	43.0	46.1
92.5°	46.1	55.3	64.5	69.1	66.1
95°	90.7	101.4	113.7	119.9	119.9
97.5°	149.0	156.7	165.9	173.6	172.1
100°	209.0	218.2	225.9	230.5	233.6
102.5°	278.1	282.7	293.5	298.1	296.6
105°	345.7	348.8	362.6	362.6	365.7
107.5°	425.6	427.2	433.3	437.9	436.4
110°	499.4	502.5	505.5	511.7	508.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	576.2	577.7	577.7	585.4	585.4
115°	653.0	657.7	654.6	656.1	654.6
117.5°	731.4	732.9	729.9	729.9	725.3
120°	803.6	812.8	805.2	803.6	800.6
122.5°	878.9	885.1	882.0	877.4	872.8
125°	955.7	960.4	957.3	951.1	945.0
127.5°	1026.4	1035.6	1032.6	1023.4	1017.2
130°	1097.1	1109.4	1104.8	1098.6	1087.9
132.5°	1167.8	1180.1	1177.0	1169.3	1161.6
135°	1240.0	1249.2	1247.7	1241.5	1238.5
137.5°	1306.1	1313.8	1318.4	1310.7	1306.1
140°	1375.2	1382.9	1384.4	1382.9	1372.2
142.5°	1438.2	1445.9	1449.0	1447.4	1439.8
145°	1504.3	1507.4	1512.0	1510.4	1504.3
147.5°	1561.2	1567.3	1571.9	1571.9	1562.7
150°	1621.1	1624.2	1627.2	1627.2	1618.0
152.5°	1670.3	1674.9	1676.4	1679.5	1671.8
155°	1722.5	1722.5	1724.0	1730.2	1719.4
157.5°	1767.1	1765.5	1767.1	1773.2	1764.0
160°	1808.5	1805.5	1805.5	1813.2	1807.0
162.5°	1845.4	1840.8	1842.3	1850.0	1839.3
165°	1876.2	1871.5	1871.5	1880.8	1870.0
167.5°	1902.3	1896.1	1897.7	1906.9	1897.7
170°	1923.8	1917.6	1917.6	1928.4	1917.6
172.5°	1940.7	1934.5	1934.5	1943.8	1933.0
175°	1951.4	1945.3	1945.3	1954.5	1943.8
177.5°	1957.6	1951.4	1951.4	1960.7	1949.9
180°	1956.1	1956.1	1956.1	1956.1	1956.1

(END OF REPORT)