

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: P1031345

Luminaire Tested: S123DIW-B1000D1535UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031345
REPORT IS A COMBINATION OF REPORTS P990712 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1000D1535UB50-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

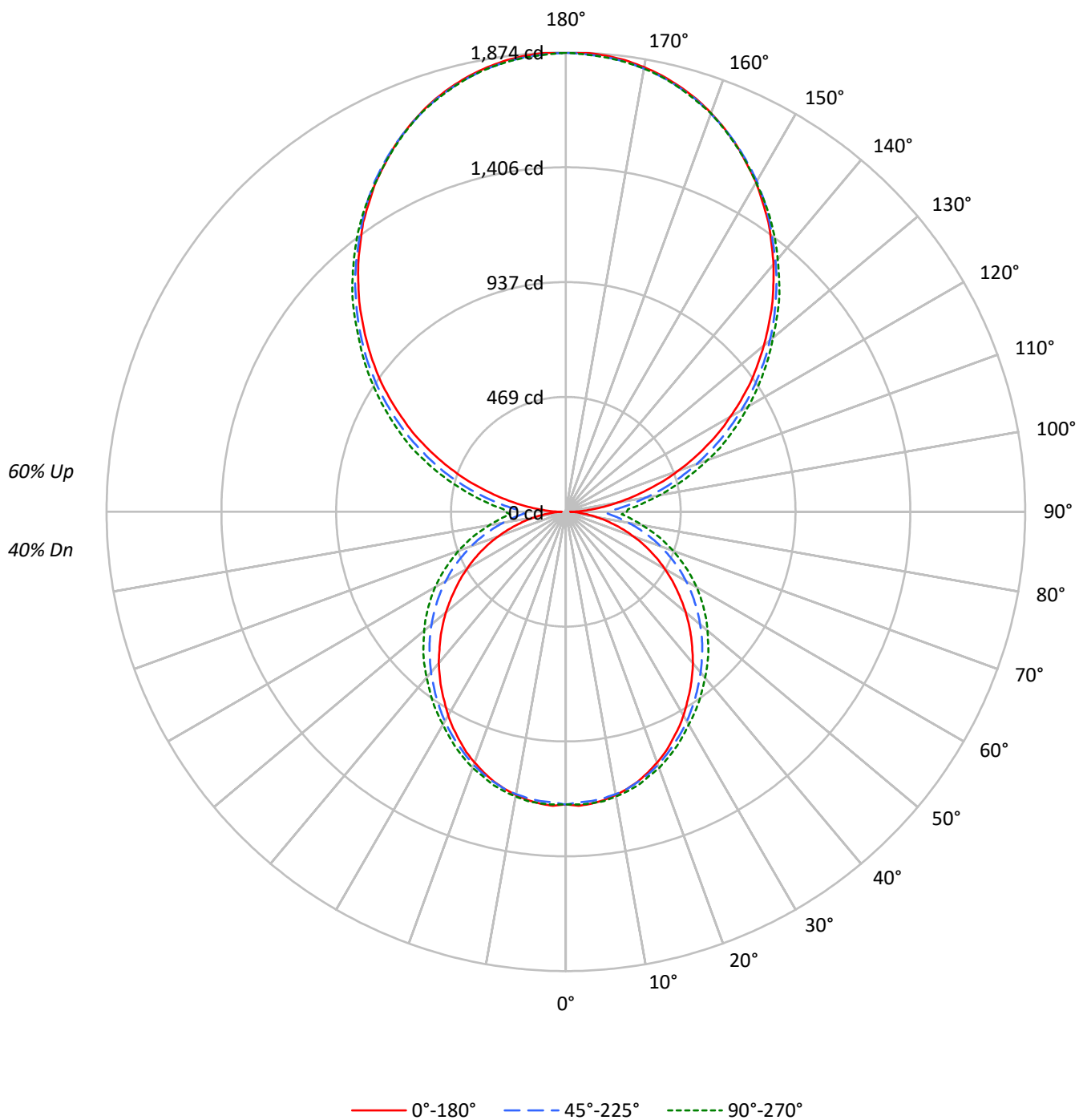
Lumens per Lamp: N/A
Luminaire Lumens: 9206.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1031345

CATALOG NUMBER: S123DIW-B1000D1535UB50-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1031345

CATALOG NUMBER: S123DIW-B1000D1535UB50-4F0-XX-W2A-D1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
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	95	95	95	95	78	78	78	62	62	62	47	47	47	40		
1	95	90	86	82	86	82	78	75	67	64	62	53	51	50	40	39	38	32		
2	86	78	72	66	78	71	66	61	58	54	51	46	43	41	35	33	31	26		
3	78	68	61	55	71	62	56	51	51	46	42	40	37	34	31	28	26	22		
4	71	60	52	46	64	55	48	43	45	40	36	36	32	29	27	25	22	18		
5	65	54	45	39	59	49	42	36	40	35	31	32	28	25	24	22	19	16		
6	60	48	40	34	54	44	37	31	36	31	26	29	25	22	22	19	17	14		
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	20	17	15	12		
8	51	39	31	26	47	36	29	24	30	24	20	24	20	17	18	16	13	11		
9	48	36	28	23	43	33	26	21	27	22	18	22	18	15	17	14	12	10		
10	45	32	25	20	40	30	23	19	25	20	16	20	16	14	16	13	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12853	12853	12853
5°	12888	12476	12466
10°	12768	12138	12046
15°	12598	11764	11599
20°	12358	11349	11120
25°	12064	10880	10624
30°	11761	10457	10127
35°	11423	10011	9720
40°	11100	9605	9292
45°	10740	9211	8939
50°	10386	8821	8555
55°	9993	8421	8203
60°	9609	8011	7840
65°	9213	7575	7418
70°	8620	7085	6983
75°	7867	6528	6532
80°	6993	5962	6019
85°	6119	5505	5650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10740 cd/sqm

TEST NUMBER: P1031345

CATALOG NUMBER: S123DIW-B1000D1535UB50-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	1.2
10°-20°	322.9	3.5
20°-30°	482.9	5.2
30°-40°	576.5	6.3
40°-50°	603.2	6.6
50°-60°	566.1	6.1
60°-70°	472.8	5.1
70°-80°	338.1	3.7
80°-90°	205.1	2.2
90°-100°	247.0	2.7
100°-110°	457.8	5.0
110°-120°	683.2	7.4
120°-130°	852.6	9.3
130°-140°	934.4	10.2
140°-150°	906.4	9.8
150°-160°	760.3	8.3
160°-170°	506.1	5.5
170°-180°	177.2	1.9
0°-30°	919.1	10.0
0°-40°	1495.6	16.2
0°-60°	2664.9	28.9
0°-90°	3681.0	40.0
90°-120°	1388.0	15.1
90°-150°	4081.4	44.3
90°-180°	5525.0	60.0
0°-180°	9206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1195	1193	1185	1195	1194	113
15°	1138	1142	1141	1154	1152	321
25°	1028	1041	1044	1061	1061	474
35°	884	905	922	942	947	553
45°	723	754	787	812	822	558
55°	552	594	641	676	687	494
65°	381	432	489	528	541	377
75°	207	268	333	376	392	221
85°	64	129	198	242	255	66
90°	18	97	182	232	248	19
95°	101	162	238	284	297	107
105°	341	376	445	481	496	365
115°	632	652	696	728	737	626
125°	919	923	958	980	983	820
135°	1190	1197	1210	1228	1231	917
145°	1442	1443	1448	1456	1456	900
155°	1649	1649	1651	1656	1646	759
165°	1796	1792	1792	1801	1790	507
175°	1868	1862	1862	1871	1861	178
180°	1873	1873	1873	1873	1873	

TEST NUMBER: P1031345

CATALOG NUMBER: S123DIW-B1000D1535UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.1	1194.1	1194.1	1194.1	1194.1
2.5°	1200.6	1196.7	1186.3	1196.7	1195.4
5°	1195.4	1192.8	1185.0	1195.4	1194.1
7.5°	1186.3	1186.3	1178.5	1191.5	1190.2
10°	1173.3	1175.9	1169.4	1182.4	1179.8
12.5°	1157.6	1161.5	1157.6	1169.4	1166.8
15°	1138.1	1142.0	1140.7	1153.7	1152.4
17.5°	1114.7	1122.5	1121.2	1132.9	1130.3
20°	1088.7	1096.5	1099.1	1110.8	1112.1
22.5°	1061.4	1069.2	1073.1	1088.7	1087.4
25°	1027.6	1040.6	1044.5	1061.4	1061.4
27.5°	995.1	1009.4	1017.2	1031.5	1032.8
30°	959.9	976.8	987.3	1002.9	1002.9
32.5°	920.9	940.4	954.7	971.6	975.5
35°	884.5	905.3	922.2	941.7	946.9
37.5°	845.5	868.9	888.4	910.5	914.4
40°	806.5	829.9	855.9	878.0	883.2
42.5°	763.5	793.4	820.8	845.5	853.3
45°	723.2	754.4	786.9	811.7	822.1
47.5°	680.3	715.4	751.8	779.1	786.9
50°	638.7	675.1	715.4	745.3	754.4
52.5°	594.4	633.5	679.0	710.2	721.9
55°	551.5	594.4	641.3	676.4	686.8
57.5°	509.9	554.1	604.8	640.0	651.7
60°	465.7	512.5	565.8	602.2	616.5
62.5°	424.0	472.2	529.4	565.8	578.8
65°	381.1	431.8	489.1	528.1	541.1
67.5°	338.2	391.5	448.8	491.7	502.1
70°	292.7	348.6	411.0	452.7	465.7
72.5°	251.0	307.0	372.0	414.9	427.9
75°	206.8	267.9	333.0	375.9	391.5
77.5°	169.1	230.2	295.3	340.8	352.5
80°	128.8	192.5	260.1	304.4	317.4
82.5°	93.7	158.7	227.6	271.9	284.9
85°	63.7	128.8	197.7	241.9	254.9
87.5°	39.0	104.1	170.4	214.6	227.6
90°	18.4	96.8	182.3	232.4	248.3
92.5°	59.7	124.5	198.4	245.7	254.5
95°	101.1	162.1	237.7	283.8	296.8
97.5°	155.7	209.9	279.9	326.2	337.8
100°	211.8	262.2	329.5	371.6	387.5
102.5°	276.7	317.5	386.4	427.2	438.7
105°	341.4	375.5	444.8	481.2	495.8
107.5°	416.6	445.4	504.7	544.2	554.4
110°	485.9	512.3	567.2	607.0	614.4

TEST NUMBER: P1031345

CATALOG NUMBER: S123DIW-B1000D1535UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	559.5	579.1	628.5	668.5	680.2
115°	631.7	651.7	695.6	728.4	737.3
117.5°	706.8	718.6	759.9	791.2	797.2
120°	774.6	789.9	825.5	853.9	860.2
122.5°	846.7	855.2	892.5	916.7	921.4
125°	918.9	923.4	958.1	979.5	982.7
127.5°	986.6	994.1	1023.7	1040.9	1044.1
130°	1054.3	1064.8	1086.3	1105.2	1102.7
132.5°	1120.7	1132.4	1149.0	1165.0	1166.8
135°	1189.8	1197.3	1210.2	1227.7	1231.2
137.5°	1253.1	1259.1	1272.6	1286.1	1288.2
140°	1318.0	1325.3	1330.7	1348.7	1344.9
142.5°	1378.3	1384.3	1387.3	1402.7	1401.8
145°	1441.5	1443.2	1447.6	1456.5	1455.8
147.5°	1494.7	1500.6	1505.0	1508.9	1505.2
150°	1552.0	1555.0	1557.9	1557.9	1551.7
152.5°	1599.1	1603.5	1605.0	1607.9	1600.6
155°	1649.1	1649.1	1650.6	1656.5	1646.2
157.5°	1691.8	1690.3	1691.8	1697.7	1688.9
160°	1731.5	1728.6	1728.6	1735.9	1730.0
162.5°	1766.8	1762.4	1763.9	1771.2	1760.9
165°	1796.2	1791.8	1791.8	1800.7	1790.4
167.5°	1821.3	1815.4	1816.8	1825.7	1816.8
170°	1841.9	1836.0	1836.0	1846.3	1836.0
172.5°	1858.0	1852.2	1852.2	1861.0	1850.7
175°	1868.3	1862.4	1862.4	1871.3	1861.0
177.5°	1874.2	1868.3	1868.3	1877.2	1866.9
180°	1872.7	1872.7	1872.7	1872.7	1872.7

(END OF REPORT)