

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: P1031329

Luminaire Tested: S123DIW-B1000D1535UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031329
REPORT IS A COMBINATION OF REPORTS P990684 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1000D1535UB30-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

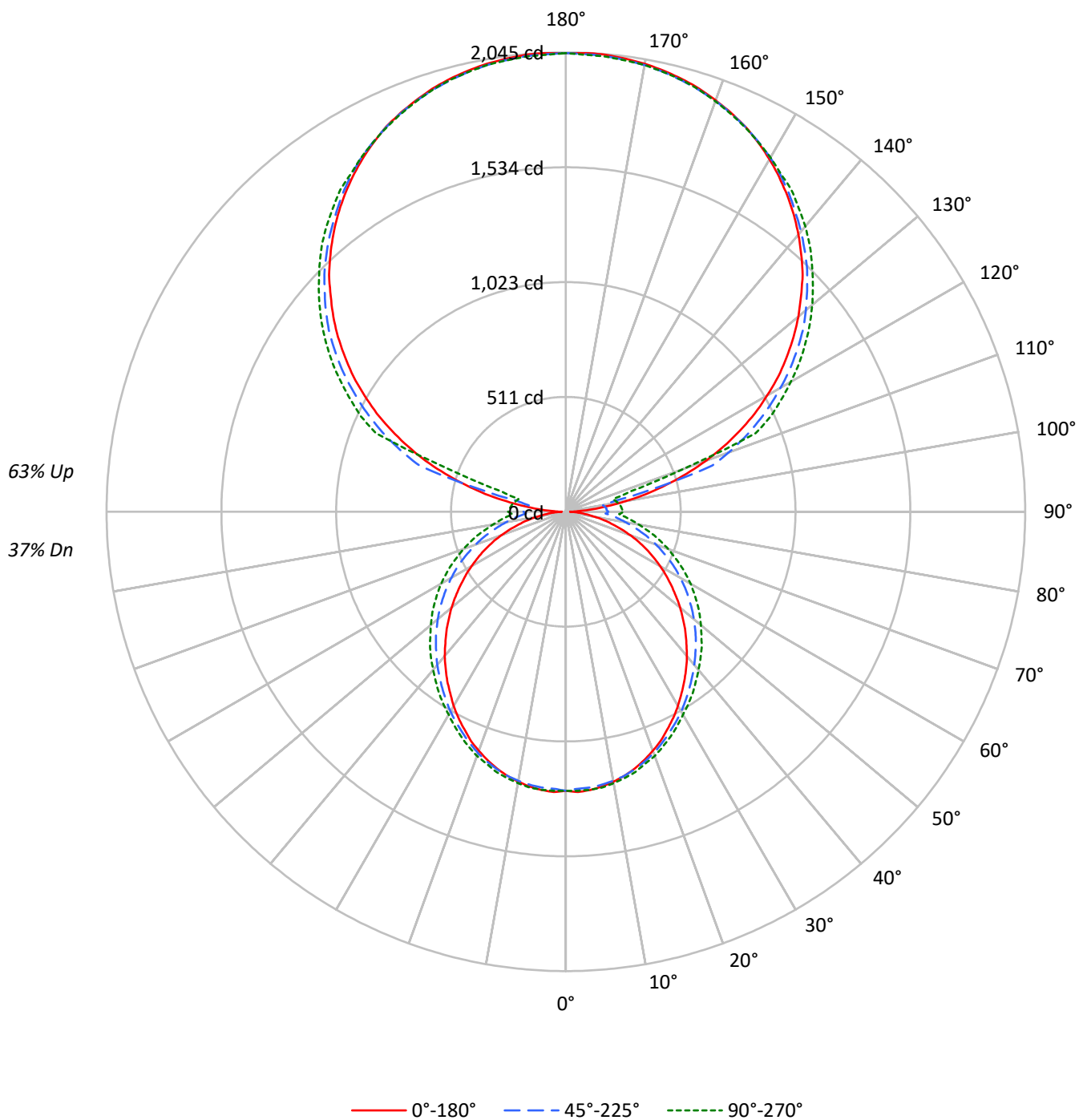
Lumens per Lamp: N/A
Luminaire Lumens: 10403.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	94	89	85	82	85	81	78	74	65	63	61	51	49	48	38	37	36
2	85	78	71	66	77	70	65	60	57	53	50	44	42	39	33	31	29
3	78	68	61	55	70	62	55	50	50	45	41	39	36	33	29	27	25
4	71	60	52	46	64	54	48	42	44	39	35	34	31	28	25	23	21
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18
6	60	48	39	34	54	43	36	31	35	30	26	28	24	21	21	18	16
7	55	43	35	29	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	15	13
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13369	13369	13369
5°	13405	12976	12966
10°	13279	12625	12529
15°	13104	12237	12065
20°	12854	11804	11566
25°	12548	11317	11051
30°	12233	10876	10532
35°	11881	10413	10110
40°	11544	9989	9664
45°	11171	9580	9297
50°	10802	9175	8898
55°	10393	8758	8531
60°	9993	8332	8156
65°	9582	7879	7716
70°	8964	7369	7261
75°	8182	6788	6793
80°	7269	6203	6260
85°	6368	5725	5878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.1
10°-20°	335.9	3.2
20°-30°	502.3	4.8
30°-40°	599.7	5.8
40°-50°	627.4	6.0
50°-60°	588.8	5.7
60°-70°	491.8	4.7
70°-80°	351.7	3.4
80°-90°	213.3	2.1
90°-100°	203.5	2.0
100°-110°	444.8	4.3
110°-120°	917.7	8.8
120°-130°	1119.8	10.8
130°-140°	1173.5	11.3
140°-150°	1085.3	10.4
150°-160°	872.6	8.4
160°-170°	563.2	5.4
170°-180°	194.1	1.9
0°-30°	955.9	9.2
0°-40°	1555.6	15.0
0°-60°	2771.8	26.6
0°-90°	3828.6	36.8
90°-120°	1565.9	15.1
90°-150°	4944.6	47.5
90°-180°	6574.0	63.2
0°-180°	10403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1243	1241	1232	1243	1242	118
15°	1184	1188	1186	1200	1199	333
25°	1069	1082	1086	1104	1104	493
35°	920	942	959	980	985	575
45°	752	785	818	844	855	580
55°	574	618	667	704	714	514
65°	396	449	509	549	563	392
75°	215	279	346	391	407	230
85°	66	134	206	252	265	68
90°	19	101	189	241	258	18
95°	107	98	181	234	247	122
105°	463	512	434	203	218	490
115°	855	880	942	990	1007	845
125°	1200	1212	1257	1288	1301	1072
135°	1491	1499	1520	1548	1551	1148
145°	1719	1728	1731	1745	1750	1076
155°	1892	1889	1890	1898	1889	872
165°	1995	1990	1989	2001	1990	564
175°	2042	2034	2036	2046	2034	194
180°	2042	2042	2042	2042	2042	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.0	1242.0	1242.0	1242.0	1242.0
2.5°	1248.7	1244.7	1233.9	1244.7	1243.3
5°	1243.3	1240.6	1232.5	1243.3	1242.0
7.5°	1233.9	1233.9	1225.7	1239.3	1237.9
10°	1220.3	1223.0	1216.3	1229.8	1227.1
12.5°	1204.1	1208.1	1204.1	1216.3	1213.6
15°	1183.8	1187.9	1186.5	1200.0	1198.7
17.5°	1159.4	1167.6	1166.2	1178.4	1175.7
20°	1132.4	1140.5	1143.2	1155.4	1156.7
22.5°	1104.0	1112.1	1116.2	1132.4	1131.0
25°	1068.8	1082.3	1086.4	1104.0	1104.0
27.5°	1035.0	1049.9	1058.0	1072.9	1074.2
30°	998.4	1016.0	1026.9	1043.1	1043.1
32.5°	957.9	978.2	993.0	1010.6	1014.7
35°	920.0	941.6	959.2	979.5	984.9
37.5°	879.4	903.7	924.0	947.0	951.1
40°	838.8	863.2	890.2	913.2	918.6
42.5°	794.2	825.3	853.7	879.4	887.5
45°	752.2	784.7	818.5	844.2	855.0
47.5°	707.6	744.1	782.0	810.4	818.5
50°	664.3	702.2	744.1	775.2	784.7
52.5°	618.3	658.9	706.2	738.7	750.9
55°	573.6	618.3	667.0	703.5	714.3
57.5°	530.3	576.3	629.1	665.6	677.8
60°	484.3	533.0	588.5	626.4	641.3
62.5°	441.0	491.1	550.6	588.5	602.0
65°	396.4	449.2	508.7	549.3	562.8
67.5°	351.8	407.2	466.8	511.4	522.2
70°	304.4	362.6	427.5	470.8	484.3
72.5°	261.1	319.3	386.9	431.6	445.1
75°	215.1	278.7	346.3	391.0	407.2
77.5°	175.9	239.5	307.1	354.5	366.6
80°	133.9	200.2	270.6	316.6	330.1
82.5°	97.4	165.1	236.8	282.8	296.3
85°	66.3	133.9	205.6	251.6	265.2
87.5°	40.6	108.2	177.2	223.2	236.8
90°	19.1	100.6	189.3	241.4	257.9
92.5°	51.1	100.2	181.5	236.8	250.5
95°	107.4	97.9	180.9	233.5	247.0
97.5°	181.9	188.1	174.3	227.1	242.1
100°	268.6	342.2	167.8	219.1	234.2
102.5°	367.3	424.9	221.9	209.7	226.2
105°	462.9	512.1	433.7	203.0	218.2
107.5°	563.2	605.3	683.5	486.4	299.9
110°	663.5	700.0	770.8	755.9	549.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	760.5	790.2	858.2	905.7	914.9
115°	854.8	880.1	942.5	990.1	1007.0
117.5°	948.9	970.3	1023.9	1068.5	1080.8
120°	1033.9	1054.4	1103.5	1146.8	1156.3
122.5°	1121.9	1135.2	1183.3	1220.6	1231.6
125°	1199.5	1211.6	1256.9	1288.3	1300.9
127.5°	1278.4	1289.1	1330.5	1362.2	1368.6
130°	1351.2	1361.9	1395.1	1426.9	1431.9
132.5°	1419.6	1431.7	1456.6	1487.0	1491.9
135°	1490.9	1498.7	1519.6	1548.5	1550.8
137.5°	1551.6	1562.4	1574.8	1604.1	1607.8
140°	1611.0	1620.1	1628.6	1655.0	1658.7
142.5°	1667.1	1674.8	1679.3	1701.5	1703.7
145°	1718.7	1727.9	1730.9	1744.8	1750.2
147.5°	1767.3	1774.9	1777.9	1785.1	1782.9
150°	1812.8	1817.4	1820.4	1823.5	1821.6
152.5°	1853.8	1855.3	1856.8	1862.9	1855.3
155°	1891.7	1888.7	1890.2	1897.8	1888.7
157.5°	1922.1	1922.1	1920.5	1929.6	1917.5
160°	1949.4	1947.9	1946.3	1955.4	1944.8
162.5°	1975.2	1970.6	1969.1	1979.7	1970.6
165°	1994.9	1990.3	1988.8	2000.9	1990.3
167.5°	2011.6	2005.5	2005.5	2017.6	2005.5
170°	2025.2	2019.2	2019.2	2031.3	2019.2
172.5°	2034.3	2026.7	2028.3	2040.4	2026.7
175°	2041.9	2034.3	2035.8	2046.5	2034.3
177.5°	2044.9	2037.4	2038.9	2051.0	2035.8
180°	2041.9	2041.9	2041.9	2041.9	2041.9

(END OF REPORT)