

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: P1031473

Luminaire Tested: S123DIW-B1165D1535UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031473
REPORT IS A COMBINATION OF REPORTS P991014 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1165D1535UB30-4F0-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

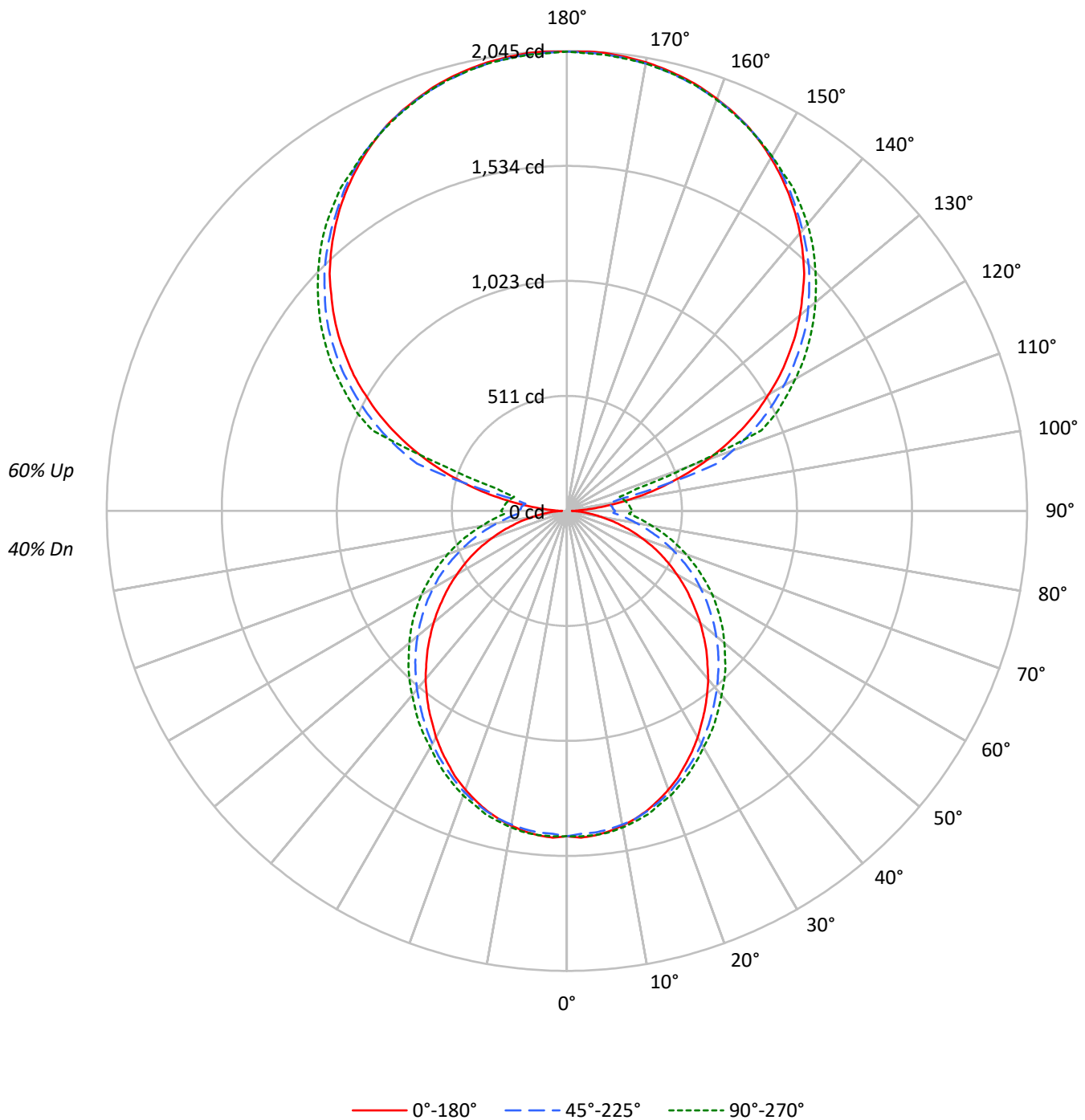
Lumens per Lamp: N/A
Luminaire Lumens: 11089.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 113.5
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: P1031473

CATALOG NUMBER: S123DIW-B1165D1535UB30-4F0-XX-W2A-D

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15566	15566	15566
5°	15608	15109	15097
10°	15462	14700	14588
15°	15258	14248	14048
20°	14967	13744	13467
25°	14610	13176	12866
30°	14243	12663	12263
35°	13834	12125	11772
40°	13442	11631	11252
45°	13007	11155	10825
50°	12578	10683	10361
55°	12102	10197	9933
60°	11636	9701	9496
65°	11159	9174	8984
70°	10437	8581	8455
75°	9529	7906	7911
80°	8469	7223	7290
85°	7415	6667	6844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13007 cd/sqm

TEST NUMBER: P1031473

CATALOG NUMBER: S123DIW-B1165D1535UB30-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	1.2
10°-20°	391.1	3.5
20°-30°	584.8	5.3
30°-40°	698.2	6.3
40°-50°	730.6	6.6
50°-60°	685.6	6.2
60°-70°	572.6	5.2
70°-80°	409.5	3.7
80°-90°	247.7	2.2
90°-100°	225.1	2.0
100°-110°	460.7	4.2
110°-120°	928.3	8.4
120°-130°	1125.9	10.2
130°-140°	1176.2	10.6
140°-150°	1085.9	9.8
150°-160°	872.7	7.9
160°-170°	563.2	5.1
170°-180°	194.1	1.8
0°-30°	1113.0	10.0
0°-40°	1811.3	16.3
0°-60°	3227.4	29.1
0°-90°	4457.2	40.2
90°-120°	1614.0	14.6
90°-150°	5002.0	45.1
90°-180°	6632.0	59.8
0°-180°	11089.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1448	1444	1435	1448	1446	137
15°	1378	1383	1382	1397	1396	388
25°	1244	1260	1265	1285	1285	574
35°	1071	1096	1117	1140	1147	670
45°	876	914	953	983	996	675
55°	668	720	777	819	832	598
65°	462	523	592	640	655	456
75°	250	324	403	455	474	268
85°	77	156	239	293	309	79
90°	22	114	214	274	293	20
95°	110	109	203	262	278	124
105°	465	519	450	226	243	492
115°	856	884	954	1007	1026	846
125°	1200	1212	1264	1300	1314	1073
135°	1491	1499	1522	1555	1558	1148
145°	1719	1728	1731	1747	1753	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	

TEST NUMBER: P1031473

CATALOG NUMBER: S123DIW-B1165D1535UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.1	1446.1	1446.1	1446.1	1446.1
2.5°	1454.0	1449.2	1436.6	1449.2	1447.7
5°	1447.7	1444.5	1435.1	1447.7	1446.1
7.5°	1436.6	1436.6	1427.2	1442.9	1441.4
10°	1420.9	1424.0	1416.2	1431.9	1428.8
12.5°	1402.0	1406.7	1402.0	1416.2	1413.0
15°	1378.4	1383.1	1381.5	1397.3	1395.7
17.5°	1350.0	1359.5	1357.9	1372.1	1368.9
20°	1318.5	1327.9	1331.1	1345.3	1346.8
22.5°	1285.4	1294.9	1299.6	1318.5	1316.9
25°	1244.5	1260.2	1264.9	1285.4	1285.4
27.5°	1205.1	1222.4	1231.9	1249.2	1250.8
30°	1162.5	1183.0	1195.6	1214.5	1214.5
32.5°	1115.3	1138.9	1156.2	1176.7	1181.4
35°	1071.2	1096.4	1116.9	1140.5	1146.8
37.5°	1023.9	1052.3	1075.9	1102.7	1107.4
40°	976.7	1005.0	1036.5	1063.3	1069.6
42.5°	924.7	960.9	994.0	1023.9	1033.4
45°	875.8	913.7	953.0	983.0	995.6
47.5°	823.9	866.4	910.5	943.6	953.0
50°	773.5	817.6	866.4	902.6	913.7
52.5°	719.9	767.2	822.3	860.1	874.3
55°	667.9	719.9	776.6	819.1	831.7
57.5°	617.5	671.1	732.5	775.0	789.2
60°	563.9	620.7	685.2	729.3	746.7
62.5°	513.5	571.8	641.1	685.2	701.0
65°	461.6	523.0	592.3	639.6	655.3
67.5°	409.6	474.2	543.5	595.4	608.1
70°	354.4	422.2	497.8	548.2	563.9
72.5°	304.0	371.8	450.5	502.5	518.3
75°	250.5	324.5	403.3	455.3	474.2
77.5°	204.8	278.8	357.6	412.7	426.9
80°	156.0	233.1	315.1	368.6	384.4
82.5°	113.4	192.2	275.7	329.2	345.0
85°	77.2	156.0	239.4	293.0	308.8
87.5°	47.3	126.0	206.4	259.9	275.7
90°	22.0	114.4	214.4	274.1	292.8
92.5°	53.8	112.4	204.8	267.5	283.2
95°	109.8	109.1	203.0	262.4	278.1
97.5°	184.2	198.4	195.0	254.5	271.7
100°	270.6	351.3	187.1	244.9	262.2
102.5°	369.1	432.9	239.9	233.9	252.7
105°	464.7	519.2	450.3	226.0	243.1
107.5°	564.7	611.5	698.8	507.7	323.2
110°	664.9	705.3	785.0	775.9	571.6

TEST NUMBER: P1031473

CATALOG NUMBER: S123DIW-B1165D1535UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	761.9	794.6	871.1	924.1	935.3
115°	855.9	883.9	954.3	1007.2	1025.9
117.5°	950.0	973.2	1034.3	1084.2	1098.3
120°	1034.8	1056.4	1112.9	1161.3	1172.3
122.5°	1122.8	1136.6	1191.5	1233.7	1246.3
125°	1200.1	1212.2	1264.0	1300.1	1314.2
127.5°	1279.0	1289.6	1336.5	1372.6	1380.6
130°	1351.8	1362.4	1400.0	1436.0	1442.3
132.5°	1420.1	1432.2	1460.4	1494.7	1501.3
135°	1491.4	1498.9	1522.3	1555.2	1558.5
137.5°	1552.1	1562.6	1576.6	1609.4	1614.3
140°	1611.2	1620.3	1629.5	1659.2	1664.0
142.5°	1667.3	1674.8	1679.3	1704.4	1707.7
145°	1718.9	1727.9	1730.9	1746.6	1752.9
147.5°	1767.3	1774.9	1777.9	1785.7	1784.4
150°	1812.8	1817.4	1820.4	1823.5	1822.1
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)