

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: P1031336

Luminaire Tested: S123DIW-B1000D1535UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031336
REPORT IS A COMBINATION OF REPORTS P990694 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-D1
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

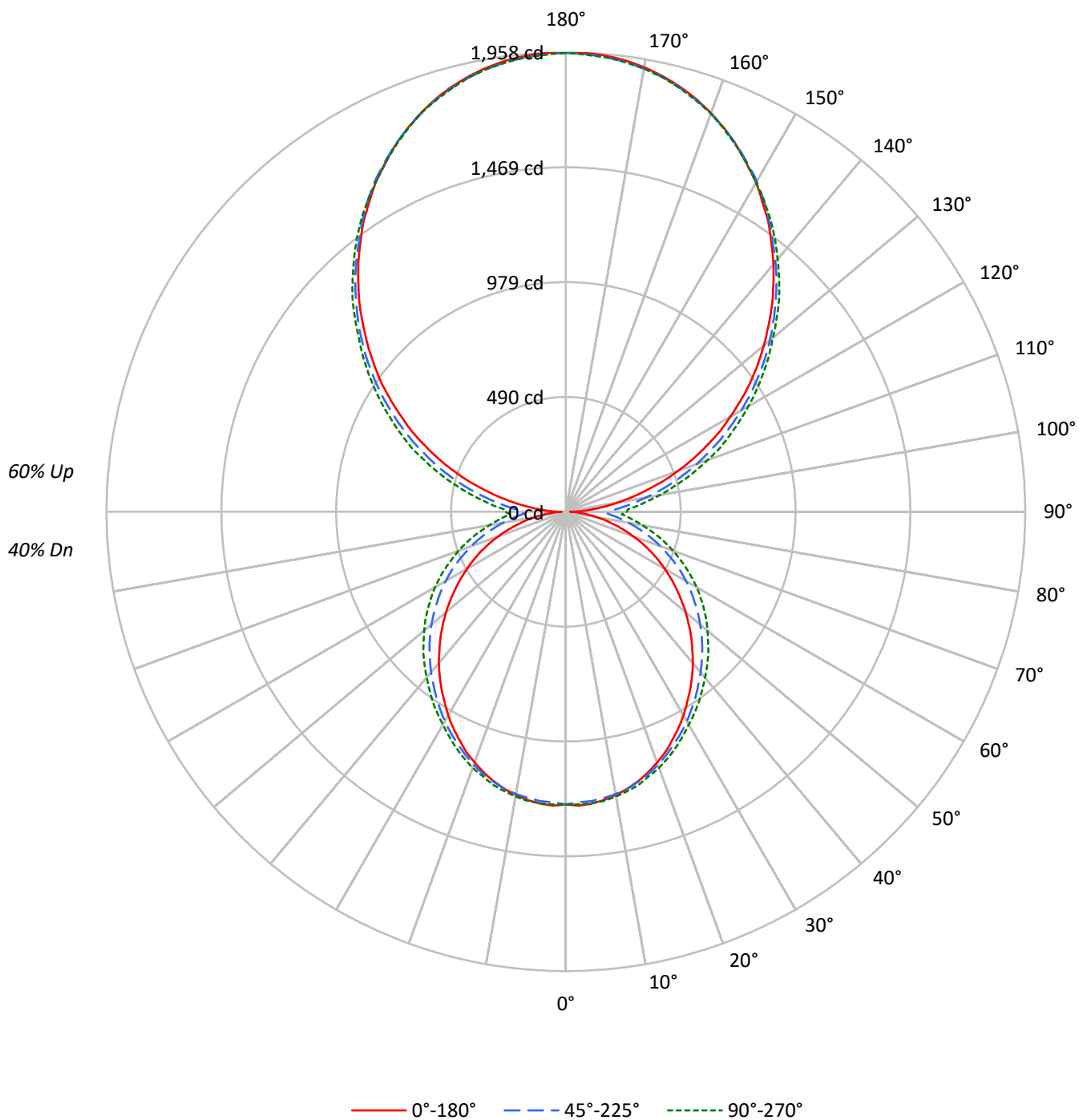
Lumens per Lamp: N/A
Luminaire Lumens: 9616.0 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 99
Input Voltage (V):
Input Current (A_{in}): 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: P1031336

CATALOG NUMBER: S123DIW-B1000D1535UB35-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1031336

CATALOG NUMBER: S123DIW-B1000D1535UB35-4F0-XX-W2A-D1

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	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°	13426	13426	13426
5°	13463	13032	13021
10°	13337	12679	12583
15°	13160	12289	12116
20°	12910	11855	11616
25°	12602	11366	11098
30°	12287	10923	10578
35°	11931	10459	10154
40°	11594	10033	9706
45°	11220	9621	9337
50°	10848	9214	8937
55°	10439	8796	8568
60°	10037	8369	8190
65°	9624	7913	7749
70°	9003	7402	7293
75°	8217	6818	6823
80°	7302	6228	6287
85°	6397	5750	5902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11220 cd/sqm

TEST NUMBER: P1031336

CATALOG NUMBER: S123DIW-B1000D1535UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	1.2
10°-20°	337.3	3.5
20°-30°	504.4	5.2
30°-40°	602.3	6.3
40°-50°	630.1	6.6
50°-60°	591.3	6.1
60°-70°	493.9	5.1
70°-80°	353.2	3.7
80°-90°	214.3	2.2
90°-100°	257.9	2.7
100°-110°	478.2	5.0
110°-120°	713.6	7.4
120°-130°	890.5	9.3
130°-140°	976.0	10.1
140°-150°	946.7	9.8
150°-160°	794.1	8.3
160°-170°	528.7	5.5
170°-180°	185.1	1.9
0°-30°	960.1	10.0
0°-40°	1562.3	16.2
0°-60°	2783.8	28.9
0°-90°	3845.1	40.0
90°-120°	1449.8	15.1
90°-150°	4263.0	44.3
90°-180°	5771.0	60.0
0°-180°	9616.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1249	1246	1238	1249	1247	118
15°	1189	1193	1192	1205	1204	335
25°	1073	1087	1091	1109	1109	495
35°	924	946	963	984	989	578
45°	756	788	822	848	859	583
55°	576	621	670	706	717	516
65°	398	451	511	552	565	394
75°	216	280	348	393	409	231
85°	67	134	206	253	266	69
90°	19	101	190	243	259	19
95°	106	169	248	296	310	112
105°	357	392	464	503	518	381
115°	660	681	727	761	770	653
125°	960	964	1001	1023	1026	856
135°	1243	1251	1264	1282	1286	958
145°	1506	1507	1512	1521	1521	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	

TEST NUMBER: P1031336

CATALOG NUMBER: S123DIW-B1000D1535UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.3	1247.3	1247.3	1247.3	1247.3
2.5°	1254.1	1250.0	1239.2	1250.0	1248.7
5°	1248.7	1246.0	1237.8	1248.7	1247.3
7.5°	1239.2	1239.2	1231.0	1244.6	1243.3
10°	1225.6	1228.3	1221.5	1235.1	1232.4
12.5°	1209.3	1213.4	1209.3	1221.5	1218.8
15°	1188.9	1193.0	1191.6	1205.2	1203.8
17.5°	1164.4	1172.6	1171.2	1183.5	1180.7
20°	1137.3	1145.4	1148.1	1160.4	1161.7
22.5°	1108.7	1116.9	1121.0	1137.3	1135.9
25°	1073.4	1087.0	1091.1	1108.7	1108.7
27.5°	1039.4	1054.4	1062.5	1077.5	1078.8
30°	1002.8	1020.4	1031.3	1047.6	1047.6
32.5°	962.0	982.4	997.3	1015.0	1019.1
35°	923.9	945.7	963.4	983.7	989.2
37.5°	883.2	907.6	928.0	951.1	955.2
40°	842.4	866.9	894.1	917.2	922.6
42.5°	797.6	828.8	857.4	883.2	891.3
45°	755.5	788.1	822.0	847.9	858.7
47.5°	710.6	747.3	785.4	813.9	822.0
50°	667.1	705.2	747.3	778.6	788.1
52.5°	620.9	661.7	709.3	741.9	754.1
55°	576.1	620.9	669.9	706.5	717.4
57.5°	532.6	578.8	631.8	668.5	680.7
60°	486.4	535.3	591.1	629.1	644.0
62.5°	443.0	493.2	553.0	591.1	604.6
65°	398.1	451.1	510.9	551.7	565.2
67.5°	353.3	409.0	468.8	513.6	524.5
70°	305.7	364.1	429.4	472.8	486.4
72.5°	262.2	320.7	388.6	433.4	447.0
75°	216.0	279.9	347.8	392.7	409.0
77.5°	176.6	240.5	308.4	356.0	368.2
80°	134.5	201.1	271.7	317.9	331.5
82.5°	97.8	165.8	237.8	284.0	297.6
85°	66.6	134.5	206.5	252.7	266.3
87.5°	40.8	108.7	178.0	224.2	237.8
90°	19.2	101.1	190.4	242.7	259.4
92.5°	62.4	130.0	207.2	256.6	265.8
95°	105.6	169.3	248.2	296.5	310.1
97.5°	162.6	219.2	292.3	340.7	352.8
100°	221.2	273.9	344.1	388.1	404.8
102.5°	289.0	331.6	403.6	446.2	458.3
105°	356.6	392.3	464.5	502.6	517.9
107.5°	435.1	465.2	527.1	568.3	579.1
110°	507.6	535.1	592.5	634.0	641.8

TEST NUMBER: P1031336

CATALOG NUMBER: S123DIW-B1000D1535UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	584.4	604.9	656.5	698.2	710.4
115°	659.8	680.8	726.6	760.7	770.1
117.5°	738.2	750.6	793.8	826.4	832.6
120°	809.0	825.0	862.3	891.9	898.4
122.5°	884.3	893.3	932.3	957.6	962.5
125°	959.8	964.5	1000.8	1023.1	1026.5
127.5°	1030.5	1038.3	1069.3	1087.3	1090.6
130°	1101.2	1112.1	1134.7	1154.3	1151.8
132.5°	1170.5	1182.8	1200.1	1216.9	1218.7
135°	1242.7	1250.6	1264.0	1282.3	1286.1
137.5°	1308.8	1315.2	1329.3	1343.3	1345.5
140°	1376.6	1384.3	1389.8	1408.7	1404.8
142.5°	1439.6	1445.9	1449.0	1465.1	1464.3
145°	1505.7	1507.4	1512.0	1521.3	1520.6
147.5°	1561.2	1567.3	1571.9	1576.0	1572.2
150°	1621.1	1624.2	1627.2	1627.2	1620.7
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)