

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: P1031335

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031335
REPORT IS A COMBINATION OF REPORTS P990693 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1000D1535UB35-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

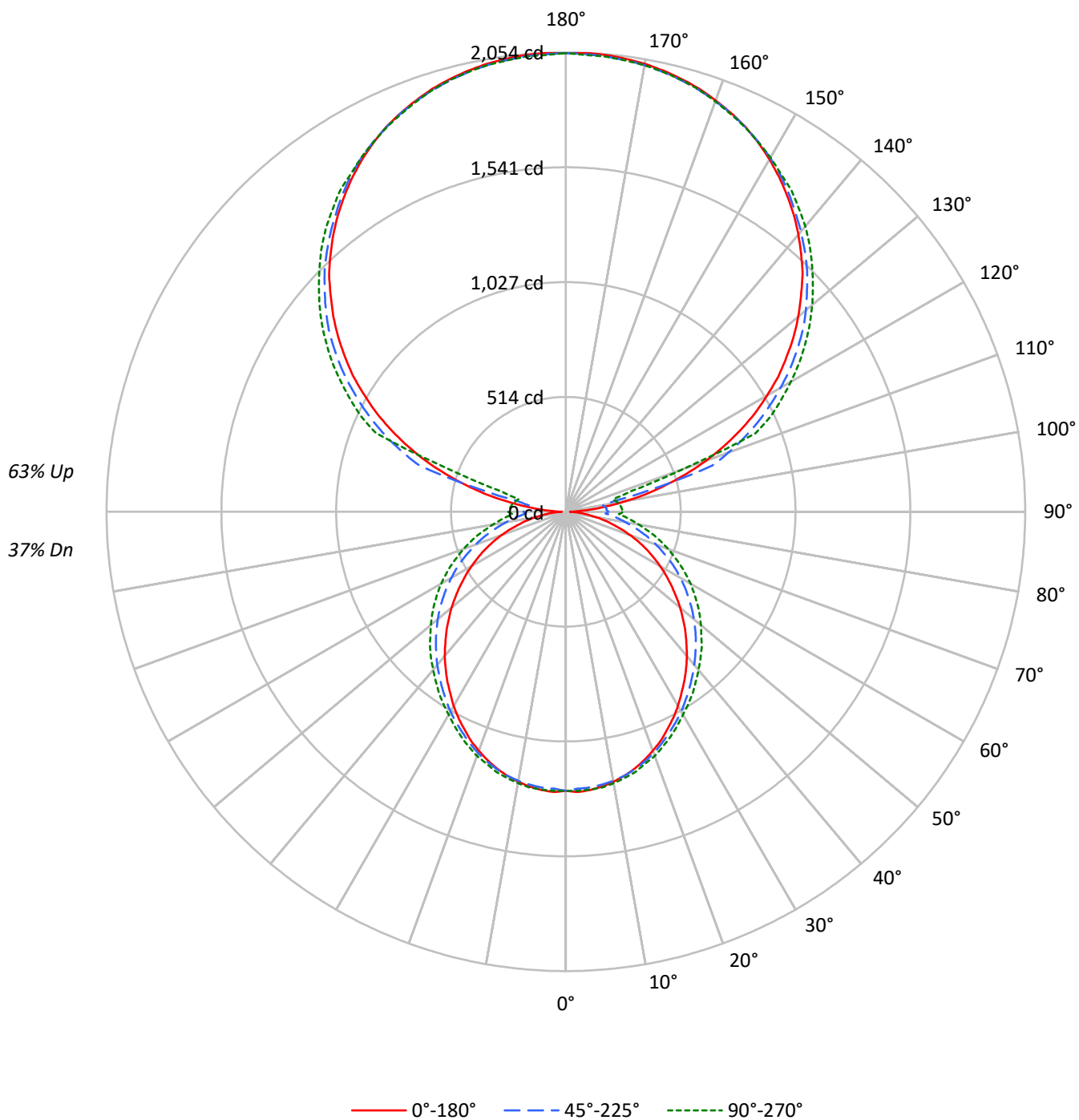
Lumens per Lamp: N/A
Luminaire Lumens: 10447.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1031335

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

Luminous Intensity Polar Plot



TEST NUMBER: P1031335

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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
RCR																	
0	104	104	104	104	94	94	94	94	76	76	76		59	59	59		44
1	94	89	85	82	85	81	78	74	65	63	61		51	49	48		38
2	85	78	71	66	77	70	65	60	57	53	50		44	42	39		33
3	78	68	61	55	70	62	55	50	50	45	41		39	36	33		29
4	71	60	52	46	64	54	48	42	44	39	35		34	31	28		25
5	65	53	45	39	58	48	41	36	39	34	30		31	27	24		23
6	60	48	39	34	54	43	36	31	35	30	26		28	24	21		21
7	55	43	35	29	50	39	32	27	32	27	23		25	21	18		19
8	51	39	31	26	46	35	29	24	29	24	20		23	19	16		17
9	47	35	28	23	43	32	26	21	26	21	18		21	17	14		16
10	44	32	25	20	40	29	23	19	24	19	16		19	16	13		15

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: P1031335

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	1.1
10°-20°	337.3	3.2
20°-30°	504.4	4.8
30°-40°	602.3	5.8
40°-50°	630.1	6.0
50°-60°	591.3	5.7
60°-70°	493.9	4.7
70°-80°	353.2	3.4
80°-90°	214.2	2.1
90°-100°	204.3	2.0
100°-110°	446.7	4.3
110°-120°	921.5	8.8
120°-130°	1124.5	10.8
130°-140°	1178.4	11.3
140°-150°	1089.8	10.4
150°-160°	876.3	8.4
160°-170°	565.5	5.4
170°-180°	194.9	1.9
0°-30°	960.1	9.2
0°-40°	1562.3	15.0
0°-60°	2783.8	26.6
0°-90°	3845.1	36.8
90°-120°	1572.5	15.1
90°-150°	4965.2	47.5
90°-180°	6602.0	63.2
0°-180°	10447.0	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	242	259	18
95°	108	98	182	234	248	123
105°	465	514	436	204	219	492
115°	858	884	946	994	1011	848
125°	1204	1217	1262	1294	1306	1077
135°	1497	1505	1526	1555	1557	1153
145°	1726	1735	1738	1752	1758	1080
155°	1900	1897	1898	1906	1897	875
165°	2003	1999	1997	2009	1999	566
175°	2050	2043	2044	2055	2043	195
180°	2050	2050	2050	2050	2050	

TEST NUMBER: P1031335

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

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	101.0	190.1	242.4	259.0
92.5°	51.3	100.6	182.3	237.8	251.5
95°	107.8	98.4	181.7	234.5	248.1
97.5°	182.7	188.9	175.1	228.0	243.2
100°	269.6	343.6	168.5	220.1	235.2
102.5°	368.9	426.7	222.8	210.6	227.2
105°	464.9	514.2	435.5	204.0	219.2
107.5°	565.5	607.7	686.4	488.4	301.1
110°	666.3	702.9	774.0	759.1	552.1

TEST NUMBER: P1031335

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	763.8	793.4	861.8	909.5	918.7
115°	858.4	883.8	946.4	994.2	1011.2
117.5°	952.8	974.4	1028.2	1073.0	1085.3
120°	1038.2	1058.7	1108.2	1151.6	1161.1
122.5°	1126.6	1140.0	1188.2	1225.8	1236.8
125°	1204.5	1216.7	1262.2	1293.7	1306.3
127.5°	1283.7	1294.5	1336.1	1367.9	1374.3
130°	1356.8	1367.6	1400.9	1432.8	1438.0
132.5°	1425.5	1437.7	1462.7	1493.3	1498.2
135°	1497.1	1504.9	1525.9	1555.0	1557.2
137.5°	1558.0	1568.9	1581.5	1610.8	1614.5
140°	1617.7	1626.8	1635.4	1661.9	1665.6
142.5°	1674.0	1681.8	1686.3	1708.6	1710.8
145°	1725.8	1735.1	1738.1	1752.1	1757.5
147.5°	1774.7	1782.3	1785.4	1792.5	1790.3
150°	1820.4	1825.0	1828.0	1831.1	1829.2
152.5°	1861.5	1863.1	1864.6	1870.7	1863.1
155°	1899.6	1896.6	1898.1	1905.7	1896.6
157.5°	1930.1	1930.1	1928.6	1937.7	1925.5
160°	1957.5	1956.0	1954.5	1963.6	1952.9
162.5°	1983.4	1978.8	1977.3	1988.0	1978.8
165°	2003.2	1998.6	1997.1	2009.3	1998.6
167.5°	2020.0	2013.9	2013.9	2026.1	2013.9
170°	2033.7	2027.6	2027.6	2039.8	2027.6
172.5°	2042.8	2035.2	2036.7	2048.9	2035.2
175°	2050.4	2042.8	2044.3	2055.0	2042.8
177.5°	2053.5	2045.9	2047.4	2059.6	2044.3
180°	2050.4	2050.4	2050.4	2050.4	2050.4

(END OF REPORT)