

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: P1031344

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031344
REPORT IS A COMBINATION OF REPORTS P990711 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-D
Description: Define 3 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

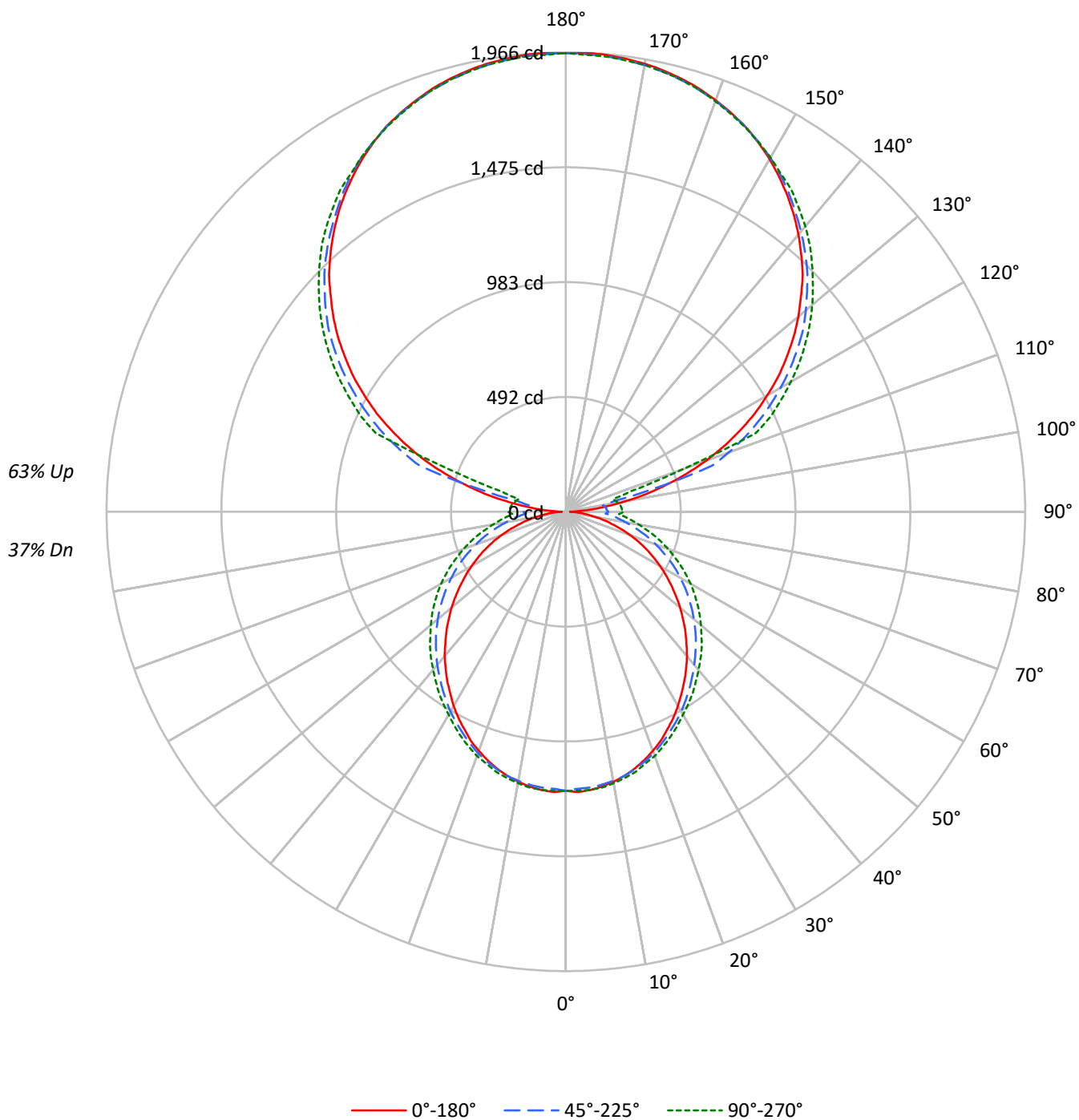
Lumens per Lamp: N/A
Luminaire Lumens: 10002.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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°	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	1.1
10°-20°	322.9	3.2
20°-30°	482.9	4.8
30°-40°	576.5	5.8
40°-50°	603.2	6.0
50°-60°	566.1	5.7
60°-70°	472.8	4.7
70°-80°	338.1	3.4
80°-90°	205.1	2.1
90°-100°	195.6	2.0
100°-110°	427.7	4.3
110°-120°	882.3	8.8
120°-130°	1076.7	10.8
130°-140°	1128.2	11.3
140°-150°	1043.5	10.4
150°-160°	839.0	8.4
160°-170°	541.5	5.4
170°-180°	186.6	1.9
0°-30°	919.1	9.2
0°-40°	1495.6	15.0
0°-60°	2664.9	26.6
0°-90°	3680.9	36.8
90°-120°	1505.6	15.1
90°-150°	4754.0	47.5
90°-180°	6321.0	63.2
0°-180°	10002.0	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	17
95°	103	94	174	224	238	117
105°	445	492	417	195	210	471
115°	822	846	906	952	968	812
125°	1153	1165	1208	1239	1251	1031
135°	1434	1441	1461	1489	1491	1104
145°	1652	1661	1664	1678	1683	1034
155°	1819	1816	1817	1825	1816	838
165°	1918	1914	1912	1924	1914	542
175°	1963	1956	1957	1968	1956	187
180°	1963	1963	1963	1963	1963	

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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	96.6	182.0	232.0	248.0
92.5°	49.1	96.3	174.5	227.6	240.8
95°	103.3	94.2	174.0	224.5	237.5
97.5°	174.9	180.9	167.7	218.3	232.8
100°	258.2	329.0	161.3	210.7	225.2
102.5°	353.2	408.5	213.3	201.6	217.5
105°	445.1	492.3	417.0	195.3	209.9
107.5°	541.5	581.9	657.2	467.7	288.3
110°	637.9	673.0	741.0	726.8	528.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	731.2	759.7	825.1	870.8	879.6
115°	821.8	846.2	906.1	952.0	968.2
117.5°	912.3	932.9	984.4	1027.3	1039.2
120°	994.1	1013.7	1061.0	1102.6	1111.8
122.5°	1078.7	1091.5	1137.6	1173.5	1184.1
125°	1153.3	1164.9	1208.5	1238.7	1250.7
127.5°	1229.1	1239.5	1279.3	1309.6	1315.8
130°	1299.1	1309.5	1341.3	1371.8	1376.7
132.5°	1364.9	1376.6	1400.4	1429.7	1434.4
135°	1433.5	1440.9	1461.0	1488.8	1490.9
137.5°	1491.8	1502.2	1514.2	1542.3	1545.9
140°	1548.8	1557.6	1565.9	1591.2	1594.8
142.5°	1602.8	1610.3	1614.6	1635.9	1638.0
145°	1652.4	1661.3	1664.2	1677.5	1682.7
147.5°	1699.2	1706.5	1709.4	1716.3	1714.2
150°	1743.0	1747.4	1750.3	1753.2	1751.4
152.5°	1782.4	1783.8	1785.3	1791.1	1783.8
155°	1818.8	1815.9	1817.4	1824.7	1815.9
157.5°	1848.0	1848.0	1846.5	1855.3	1843.6
160°	1874.3	1872.8	1871.3	1880.1	1869.9
162.5°	1899.1	1894.7	1893.2	1903.4	1894.7
165°	1918.0	1913.6	1912.2	1923.9	1913.6
167.5°	1934.1	1928.2	1928.2	1939.9	1928.2
170°	1947.2	1941.4	1941.4	1953.0	1941.4
172.5°	1955.9	1948.6	1950.1	1961.8	1948.6
175°	1963.2	1955.9	1957.4	1967.6	1955.9
177.5°	1966.1	1958.9	1960.3	1972.0	1957.4
180°	1963.2	1963.2	1963.2	1963.2	1963.2

(END OF REPORT)