

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: P1034657

Luminaire Tested: S125DIW-B850D1560UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034657
REPORT IS A COMBINATION OF REPORTS P1004198 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1560UB2750-4F0-XX-W2A-F_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

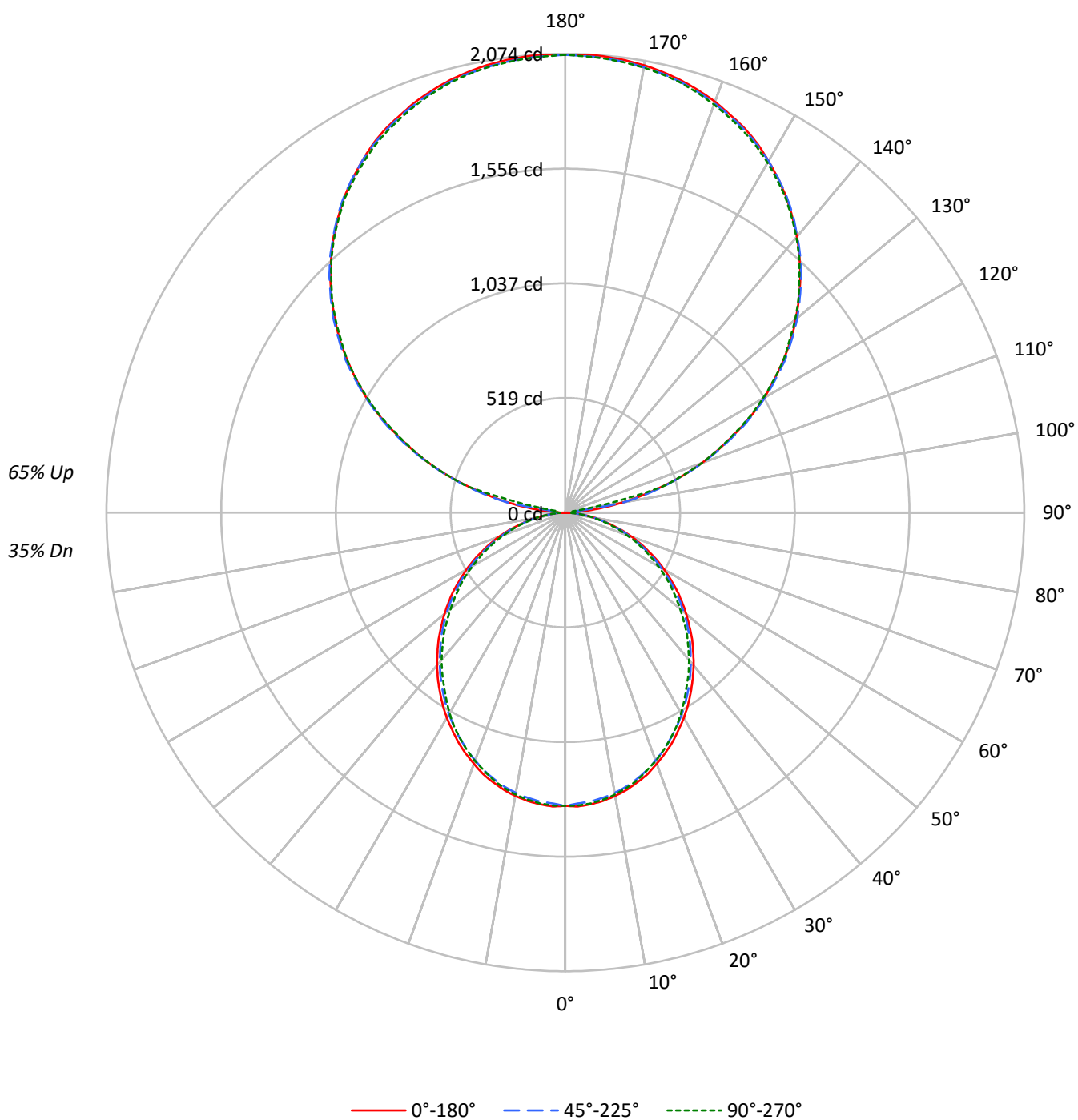
Lumens per Lamp: N/A
Luminaire Lumens: 9810.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 88.1
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	75	75	75	58	58	58	43	43	43
1	94	90	86	83	85	82	78	76	66	63	61	51	50	48	37	37	36
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30
3	78	69	62	56	71	63	57	52	51	46	43	40	36	34	29	27	26
4	72	61	53	47	64	55	49	44	45	40	36	35	32	29	26	24	22
5	66	54	46	41	59	49	43	37	40	35	31	31	28	25	23	21	19
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17
7	56	44	36	31	50	40	33	28	33	27	24	26	22	19	19	17	15
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8493	8493	8493
5°	8493	8295	8311
10°	8423	8105	8080
15°	8313	7878	7807
20°	8163	7614	7494
25°	8002	7327	7160
30°	7809	7027	6807
35°	7602	6713	6412
40°	7388	6380	6060
45°	7157	6057	5687
50°	6902	5690	5252
55°	6650	5285	4852
60°	6350	4858	4386
65°	5990	4364	3905
70°	5625	3796	3349
75°	5011	3125	2708
80°	4269	2334	1992
85°	3299	1380	1098

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7157 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	1.3
10°-20°	353.3	3.6
20°-30°	521.6	5.3
30°-40°	608.6	6.2
40°-50°	611.2	6.2
50°-60°	536.5	5.5
60°-70°	399.6	4.1
70°-80°	228.2	2.3
80°-90°	69.0	0.7
90°-100°	70.2	0.7
100°-110°	467.1	4.8
110°-120°	841.1	8.6
120°-130°	1079.6	11.0
130°-140°	1161.1	11.8
140°-150°	1089.7	11.1
150°-160°	881.5	9.0
160°-170°	570.1	5.8
170°-180°	196.6	2.0
0°-30°	1000.0	10.2
0°-40°	1608.5	16.4
0°-60°	2756.3	28.1
0°-90°	3453.1	35.2
90°-120°	1378.3	14.1
90°-150°	4708.7	48.0
90°-180°	6357.0	64.8
0°-180°	9810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1323	1321	1311	1320	1319	126
15°	1262	1258	1247	1252	1252	356
25°	1145	1140	1126	1128	1125	527
35°	989	985	970	965	956	619
45°	810	805	793	780	777	624
55°	617	614	599	589	582	550
65°	416	414	403	393	389	413
75°	221	219	214	211	207	236
85°	58	59	59	58	56	63
90°	2	14	24	32	37	8
95°	87	83	24	32	32	107
105°	451	457	457	457	456	478
115°	847	854	856	850	841	839
125°	1204	1215	1215	1209	1204	1076
135°	1502	1511	1508	1505	1496	1158
145°	1741	1744	1744	1746	1737	1089
155°	1918	1908	1911	1916	1904	884
165°	2023	2014	2016	2025	2013	572
175°	2070	2060	2062	2074	2060	197
180°	2070	2070	2070	2070	2070	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.5	1325.5	1325.5	1325.5	1325.5
2.5°	1329.7	1326.6	1316.1	1326.6	1325.5
5°	1323.4	1321.3	1310.8	1320.3	1319.2
7.5°	1314.0	1311.9	1300.4	1309.8	1308.7
10°	1300.4	1298.3	1286.7	1295.1	1294.1
12.5°	1283.6	1279.4	1268.9	1275.2	1275.2
15°	1261.6	1258.4	1246.9	1252.1	1252.1
17.5°	1238.5	1233.2	1221.7	1228.0	1222.7
20°	1208.1	1206.0	1192.3	1199.7	1194.4
22.5°	1177.7	1173.5	1160.9	1165.1	1161.9
25°	1145.1	1139.9	1126.3	1128.4	1125.2
27.5°	1107.4	1104.2	1090.6	1091.7	1088.5
30°	1070.7	1067.5	1051.8	1049.7	1046.6
32.5°	1030.8	1025.6	1012.0	1007.8	1001.5
35°	988.9	984.7	970.0	964.8	956.4
37.5°	945.9	940.7	927.0	919.7	914.4
40°	901.9	896.6	881.9	872.5	869.3
42.5°	854.7	850.5	835.8	827.4	822.2
45°	809.6	805.4	792.8	780.2	777.1
47.5°	760.3	761.3	745.6	733.0	725.7
50°	713.1	709.9	697.4	683.7	676.4
52.5°	664.9	662.8	649.1	637.6	629.2
55°	616.6	613.5	598.8	589.4	582.0
57.5°	565.2	564.2	551.6	539.0	535.9
60°	517.0	512.8	501.3	490.8	483.4
62.5°	466.7	463.5	454.1	442.5	437.3
65°	416.3	414.2	402.7	393.3	389.1
67.5°	367.0	362.8	354.5	346.1	344.0
70°	320.9	315.6	306.2	299.9	295.7
72.5°	270.6	267.4	262.2	254.8	250.6
75°	221.3	219.2	213.9	210.8	206.6
77.5°	175.1	174.1	170.9	168.8	165.7
80°	132.1	132.1	130.0	129.0	126.9
82.5°	94.4	92.3	92.3	90.2	90.2
85°	57.7	58.7	58.7	57.7	55.6
87.5°	28.3	28.3	27.3	27.3	25.2
90°	1.5	13.8	24.5	32.2	36.8
92.5°	29.1	15.3	24.5	32.2	33.7
95°	87.4	82.8	24.5	32.2	32.2
97.5°	164.1	173.3	27.6	30.7	32.2
100°	256.2	260.8	266.9	38.4	32.2
102.5°	349.8	355.9	359.0	362.0	233.2
105°	451.0	457.2	457.2	457.2	455.6
107.5°	555.3	555.3	558.4	559.9	553.8
110°	656.6	656.6	659.6	655.0	656.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	751.7	756.3	757.8	751.7	748.6
115°	846.8	854.5	856.0	849.9	840.7
117.5°	946.5	946.5	952.7	943.5	940.4
120°	1038.6	1037.0	1041.6	1038.6	1030.9
122.5°	1119.9	1127.5	1129.1	1126.0	1116.8
125°	1204.2	1215.0	1215.0	1208.8	1204.2
127.5°	1285.5	1293.2	1291.7	1288.6	1276.3
130°	1359.2	1366.9	1368.4	1363.8	1356.1
132.5°	1432.8	1442.0	1437.4	1437.4	1429.7
135°	1501.9	1511.1	1508.0	1504.9	1495.7
137.5°	1566.3	1575.5	1572.4	1572.4	1564.7
140°	1629.2	1632.2	1630.7	1633.8	1624.6
142.5°	1685.9	1687.5	1690.5	1690.5	1681.3
145°	1741.2	1744.2	1744.2	1745.8	1736.6
147.5°	1790.3	1790.3	1791.8	1793.3	1782.6
150°	1836.3	1833.2	1836.3	1839.3	1827.1
152.5°	1880.8	1873.1	1876.2	1879.2	1868.5
155°	1917.6	1908.4	1911.4	1916.0	1903.8
157.5°	1946.7	1942.1	1942.1	1946.7	1934.5
160°	1977.4	1968.2	1969.7	1975.9	1963.6
162.5°	2002.0	1992.8	1994.3	2003.5	1989.7
165°	2023.4	2014.2	2015.8	2025.0	2012.7
167.5°	2040.3	2031.1	2032.6	2043.4	2029.6
170°	2054.1	2043.4	2044.9	2057.2	2043.4
172.5°	2063.3	2052.6	2055.6	2066.4	2052.6
175°	2069.5	2060.3	2061.8	2074.1	2060.3
177.5°	2074.1	2064.9	2066.4	2077.1	2064.9
180°	2069.5	2069.5	2069.5	2069.5	2069.5

(END OF REPORT)