

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: P1034652

Luminaire Tested: S125DIW-B850D1560UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034652
REPORT IS A COMBINATION OF REPORTS P1004191 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-D_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

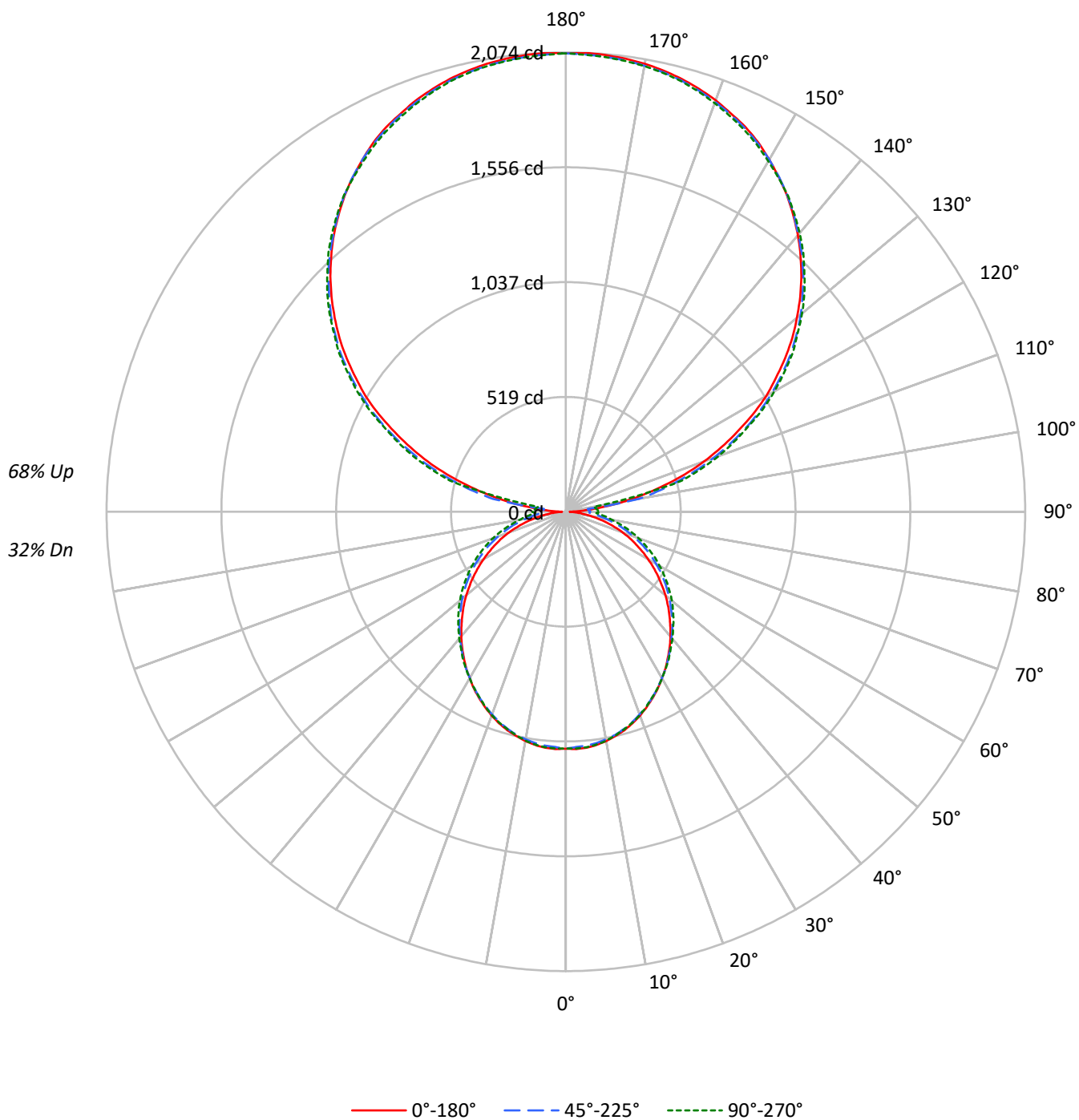
Lumens per Lamp: N/A
Luminaire Lumens: 9672.9 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40
1	93	89	85	81	84	80	77	74	64	61	59	48	47	45	34	33	33
2	85	77	71	66	76	70	64	60	55	52	49	42	40	38	30	28	27
3	77	68	60	55	69	61	55	50	49	44	41	37	34	32	26	24	23
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	23	21	19
5	65	53	45	39	58	48	41	36	38	33	29	29	26	23	21	19	17
6	59	47	39	34	53	43	36	31	34	29	25	26	23	20	19	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	20	18	17	15	13
8	51	39	31	26	45	35	28	24	28	23	20	22	18	16	16	13	12
9	47	35	28	23	42	32	25	21	26	21	17	20	16	14	15	12	10
10	44	32	25	20	39	29	23	19	24	19	16	18	15	13	14	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6852	6852	6852
5°	6864	6708	6725
10°	6812	6571	6553
15°	6729	6412	6341
20°	6617	6220	6131
25°	6484	6016	5877
30°	6324	5793	5646
35°	6173	5587	5434
40°	6021	5370	5219
45°	5849	5183	5026
50°	5684	4978	4852
55°	5484	4784	4650
60°	5267	4563	4442
65°	5039	4329	4209
70°	4778	4017	3966
75°	4368	3707	3669
80°	3829	3332	3341
85°	3299	3033	3169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.0
10°-20°	287.3	3.0
20°-30°	427.2	4.4
30°-40°	505.9	5.2
40°-50°	523.1	5.4
50°-60°	481.9	5.0
60°-70°	389.5	4.0
70°-80°	260.6	2.7
80°-90°	137.8	1.4
90°-100°	146.1	1.5
100°-110°	523.0	5.4
110°-120°	878.5	9.1
120°-130°	1100.7	11.4
130°-140°	1170.4	12.1
140°-150°	1091.6	11.3
150°-160°	881.5	9.1
160°-170°	570.1	5.9
170°-180°	196.6	2.0
0°-30°	815.7	8.4
0°-40°	1321.6	13.7
0°-60°	2326.6	24.1
0°-90°	3114.5	32.2
90°-120°	1547.6	16.0
90°-150°	4910.3	50.8
90°-180°	6558.0	67.8
0°-180°	9672.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1070	1067	1060	1068	1067	101
15°	1021	1022	1015	1021	1017	288
25°	928	931	925	929	924	427
35°	803	810	807	810	810	503
45°	662	673	678	686	687	511
55°	508	525	542	554	558	455
65°	350	374	400	415	419	348
75°	193	220	254	275	280	204
85°	58	92	129	152	160	60
90°	18	64	110	142	154	16
95°	101	124	101	132	139	118
105°	460	483	515	536	542	488
115°	853	868	897	910	907	846
125°	1208	1218	1239	1250	1250	1079
135°	1504	1512	1516	1527	1523	1160
145°	1742	1744	1744	1751	1746	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°	1069.5	1069.5	1069.5	1069.5	1069.5
2.5°	1072.6	1070.5	1063.2	1070.5	1069.5
5°	1069.5	1067.4	1060.0	1068.4	1067.4
7.5°	1062.1	1061.1	1053.7	1061.1	1060.0
10°	1051.6	1051.6	1043.2	1050.6	1049.5
12.5°	1037.0	1038.0	1031.7	1037.0	1033.8
15°	1021.2	1022.3	1014.9	1021.2	1017.0
17.5°	1001.3	1003.4	996.1	1001.3	998.2
20°	979.3	981.4	974.0	977.2	977.2
22.5°	954.1	958.3	949.9	954.1	951.0
25°	927.9	931.1	924.8	929.0	923.7
27.5°	899.6	903.8	896.5	899.6	897.5
30°	867.1	873.4	867.1	869.2	868.1
32.5°	837.7	843.0	838.8	840.9	839.8
35°	803.1	810.5	807.3	810.5	810.5
37.5°	769.6	775.9	774.8	779.0	778.0
40°	735.0	743.4	742.3	746.5	748.6
42.5°	697.2	708.8	711.9	717.2	717.2
45°	661.6	673.1	678.4	685.7	686.8
47.5°	624.9	635.4	643.8	654.3	656.4
50°	587.2	598.7	610.2	621.8	624.9
52.5°	547.3	562.0	576.7	589.3	591.3
55°	508.5	525.3	542.1	553.6	557.8
57.5°	468.7	488.6	507.5	520.1	523.2
60°	428.8	449.8	470.8	486.5	489.6
62.5°	390.0	411.0	434.1	451.9	456.1
65°	350.2	374.3	399.5	415.2	419.4
67.5°	313.5	336.6	361.7	380.6	385.8
70°	272.6	296.7	324.0	343.9	350.2
72.5°	232.8	257.9	288.3	310.4	314.5
75°	192.9	220.2	253.7	274.7	279.9
77.5°	154.1	185.6	217.0	240.1	244.3
80°	118.5	149.9	185.6	208.6	212.8
82.5°	86.0	119.5	156.2	178.2	186.6
85°	57.7	92.3	129.0	152.0	160.4
87.5°	36.7	70.2	105.9	130.0	137.4
90°	18.3	64.1	110.5	142.3	154.2
92.5°	43.8	60.4	106.3	137.0	145.9
95°	101.0	123.7	101.0	131.8	139.1
97.5°	176.7	211.0	99.9	125.1	133.9
100°	267.7	294.4	334.0	127.5	127.6
102.5°	360.3	386.3	421.9	445.9	323.4
105°	460.4	483.4	514.9	535.8	541.6
107.5°	563.7	578.4	611.9	634.3	634.5
110°	663.9	676.5	708.9	724.2	733.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	759.0	773.1	802.9	815.7	819.9
115°	853.1	868.1	896.9	909.7	906.8
117.5°	951.7	957.0	989.4	998.0	1002.3
120°	1043.8	1045.4	1074.1	1088.9	1087.5
122.5°	1124.1	1132.7	1157.4	1171.1	1168.2
125°	1208.4	1218.1	1239.1	1249.7	1250.3
127.5°	1288.6	1295.3	1311.6	1324.2	1318.2
130°	1362.3	1369.0	1385.2	1395.3	1392.8
132.5°	1434.9	1444.1	1450.0	1464.7	1461.2
135°	1504.0	1512.1	1516.4	1526.9	1523.0
137.5°	1568.4	1576.5	1577.6	1590.2	1586.7
140°	1630.2	1633.2	1632.8	1647.4	1642.4
142.5°	1686.9	1687.5	1690.5	1699.9	1694.9
145°	1742.2	1744.2	1744.2	1751.0	1746.0
147.5°	1790.3	1790.3	1791.8	1795.4	1786.8
150°	1836.3	1833.2	1836.3	1839.3	1828.1
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)