

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: P1034653

Luminaire Tested: S125DIW-B850D1560UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034653
REPORT IS A COMBINATION OF REPORTS P1004193 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_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

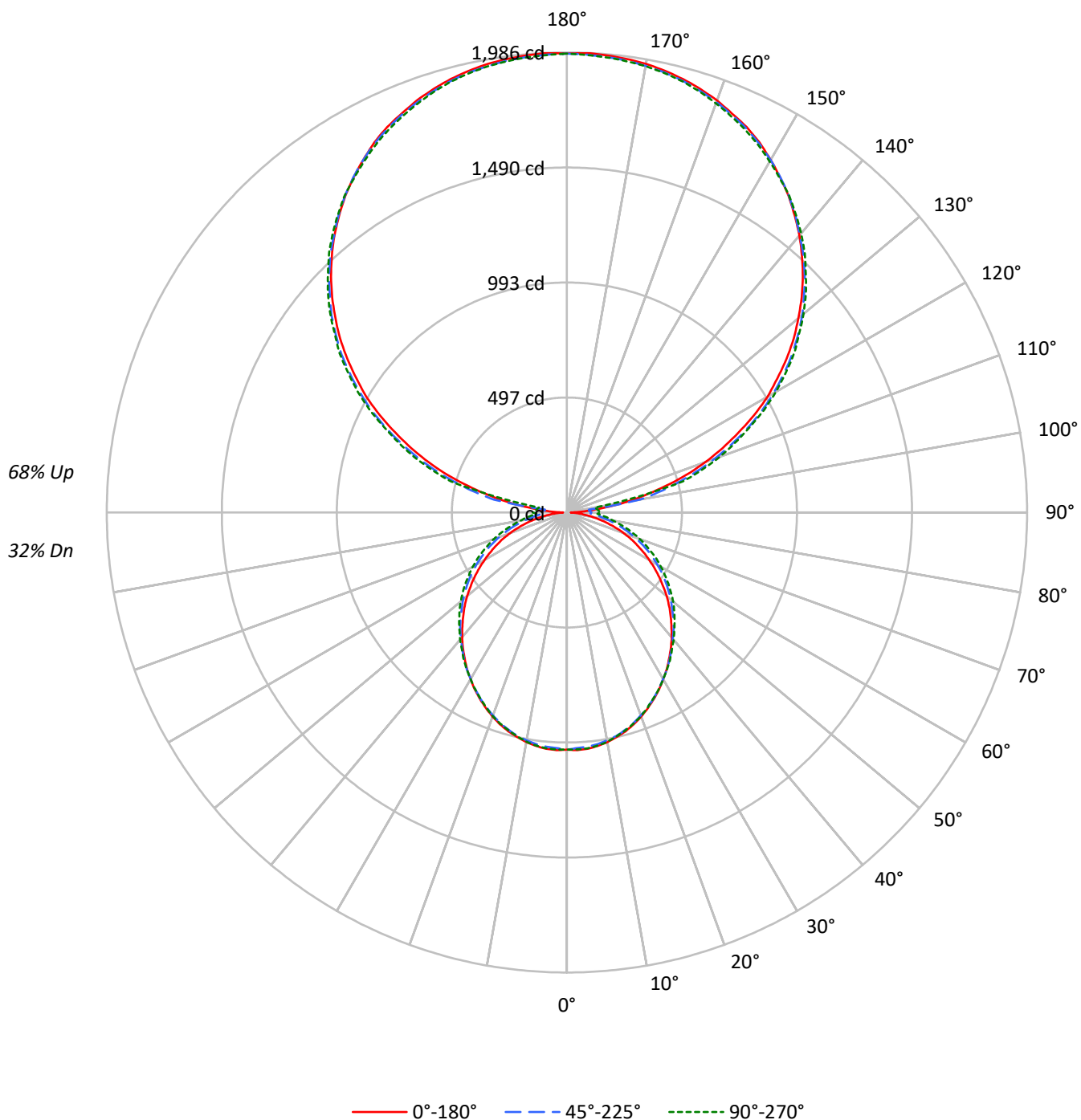
Lumens per Lamp: N/A
Luminaire Lumens: 9261.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	6560	6560	6560
5°	6571	6423	6438
10°	6522	6292	6274
15°	6443	6139	6072
20°	6335	5955	5870
25°	6208	5760	5627
30°	6055	5546	5406
35°	5911	5349	5202
40°	5765	5142	4997
45°	5599	4962	4812
50°	5442	4767	4645
55°	5251	4580	4452
60°	5043	4368	4253
65°	4825	4145	4029
70°	4575	3845	3797
75°	4182	3549	3513
80°	3665	3190	3199
85°	3156	2904	3034

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5599 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.0
10°-20°	275.1	3.0
20°-30°	409.0	4.4
30°-40°	484.4	5.2
40°-50°	500.8	5.4
50°-60°	461.3	5.0
60°-70°	372.9	4.0
70°-80°	249.5	2.7
80°-90°	131.9	1.4
90°-100°	139.9	1.5
100°-110°	500.7	5.4
110°-120°	841.1	9.1
120°-130°	1053.9	11.4
130°-140°	1120.5	12.1
140°-150°	1045.1	11.3
150°-160°	843.9	9.1
160°-170°	545.8	5.9
170°-180°	188.2	2.0
0°-30°	781.0	8.4
0°-40°	1265.4	13.7
0°-60°	2227.5	24.1
0°-90°	2981.9	32.2
90°-120°	1481.7	16.0
90°-150°	4701.1	50.8
90°-180°	6279.0	67.8
0°-180°	9261.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1024	1022	1015	1023	1022	97
15°	978	979	972	978	974	275
25°	888	891	885	889	884	409
35°	769	776	773	776	776	481
45°	633	644	650	656	658	489
55°	487	503	519	530	534	435
65°	335	358	382	398	402	333
75°	185	211	243	263	268	196
85°	55	88	124	146	154	58
90°	18	61	106	136	148	15
95°	97	118	97	126	133	113
105°	441	463	493	513	518	467
115°	817	831	859	871	868	810
125°	1157	1166	1186	1196	1197	1033
135°	1440	1448	1452	1462	1458	1110
145°	1668	1670	1670	1676	1672	1043
155°	1836	1827	1830	1834	1823	846
165°	1937	1928	1930	1939	1927	547
175°	1981	1972	1974	1986	1972	189
180°	1981	1981	1981	1981	1981	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.9	1023.9	1023.9	1023.9	1023.9
2.5°	1027.0	1024.9	1017.9	1024.9	1023.9
5°	1023.9	1021.9	1014.9	1022.9	1021.9
7.5°	1016.9	1015.9	1008.9	1015.9	1014.9
10°	1006.9	1006.9	998.8	1005.9	1004.9
12.5°	992.8	993.8	987.8	992.8	989.8
15°	977.8	978.8	971.7	977.8	973.8
17.5°	958.7	960.7	953.7	958.7	955.7
20°	937.6	939.6	932.6	935.6	935.6
22.5°	913.5	917.5	909.5	913.5	910.5
25°	888.4	891.4	885.4	889.4	884.4
27.5°	861.3	865.3	858.3	861.3	859.3
30°	830.2	836.2	830.2	832.2	831.2
32.5°	802.1	807.1	803.1	805.1	804.1
35°	769.0	776.0	773.0	776.0	776.0
37.5°	736.8	742.9	741.9	745.9	744.9
40°	703.7	711.7	710.7	714.8	716.8
42.5°	667.6	678.6	681.6	686.6	686.6
45°	633.4	644.5	649.5	656.5	657.5
47.5°	598.3	608.3	616.4	626.4	628.4
50°	562.2	573.2	584.3	595.3	598.3
52.5°	524.0	538.1	552.1	564.2	566.2
55°	486.9	502.9	519.0	530.0	534.1
57.5°	448.7	467.8	485.9	497.9	500.9
60°	410.6	430.7	450.7	465.8	468.8
62.5°	373.4	393.5	415.6	432.7	436.7
65°	335.3	358.4	382.5	397.5	401.5
67.5°	300.2	322.2	346.3	364.4	369.4
70°	261.0	284.1	310.2	329.3	335.3
72.5°	222.9	247.0	276.1	297.1	301.2
75°	184.7	210.8	242.9	263.0	268.0
77.5°	147.6	177.7	207.8	229.9	233.9
80°	113.4	143.6	177.7	199.8	203.8
82.5°	82.3	114.4	149.6	170.7	178.7
85°	55.2	88.3	123.5	145.6	153.6
87.5°	35.1	67.3	101.4	124.5	131.5
90°	17.6	61.4	105.8	136.2	147.6
92.5°	42.0	57.9	101.8	131.2	139.7
95°	96.8	118.5	96.8	126.2	133.2
97.5°	169.2	202.1	95.7	119.7	128.2
100°	256.3	281.8	319.8	122.0	122.2
102.5°	344.9	369.8	403.9	426.9	309.5
105°	440.8	462.8	492.9	513.0	518.5
107.5°	539.7	553.8	585.8	607.4	607.5
110°	635.6	647.7	678.7	693.4	701.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	726.7	740.2	768.7	780.9	785.0
115°	816.7	831.2	858.7	870.9	868.0
117.5°	911.2	916.2	947.2	955.5	959.5
120°	999.3	1000.8	1028.3	1042.5	1041.2
122.5°	1076.2	1084.5	1108.1	1121.2	1118.4
125°	1156.9	1166.2	1186.3	1196.5	1197.1
127.5°	1233.8	1240.1	1255.7	1267.8	1262.2
130°	1304.3	1310.6	1326.2	1335.8	1333.4
132.5°	1373.8	1382.6	1388.2	1402.3	1398.9
135°	1439.9	1447.7	1451.7	1461.9	1458.1
137.5°	1501.5	1509.4	1510.4	1522.5	1519.2
140°	1560.8	1563.7	1563.2	1577.3	1572.5
142.5°	1615.1	1615.6	1618.5	1627.5	1622.8
145°	1668.0	1669.9	1669.9	1676.4	1671.6
147.5°	1714.0	1714.0	1715.4	1718.9	1710.6
150°	1758.0	1755.1	1758.0	1761.0	1750.2
152.5°	1800.6	1793.3	1796.2	1799.2	1788.9
155°	1835.9	1827.1	1830.0	1834.4	1822.7
157.5°	1863.8	1859.4	1859.4	1863.8	1852.0
160°	1893.2	1884.3	1885.8	1891.7	1879.9
162.5°	1916.7	1907.8	1909.3	1918.1	1904.9
165°	1937.2	1928.4	1929.9	1938.7	1926.9
167.5°	1953.4	1944.6	1946.0	1956.3	1943.1
170°	1966.6	1956.3	1957.8	1969.5	1956.3
172.5°	1975.4	1965.1	1968.1	1978.3	1965.1
175°	1981.3	1972.5	1973.9	1985.7	1972.5
177.5°	1985.7	1976.9	1978.3	1988.6	1976.9
180°	1981.3	1981.3	1981.3	1981.3	1981.3

(END OF REPORT)