

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: P1034649

Luminaire Tested: S125DIW-B850D1560UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034649
REPORT IS A COMBINATION OF REPORTS P1004187 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-D1_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

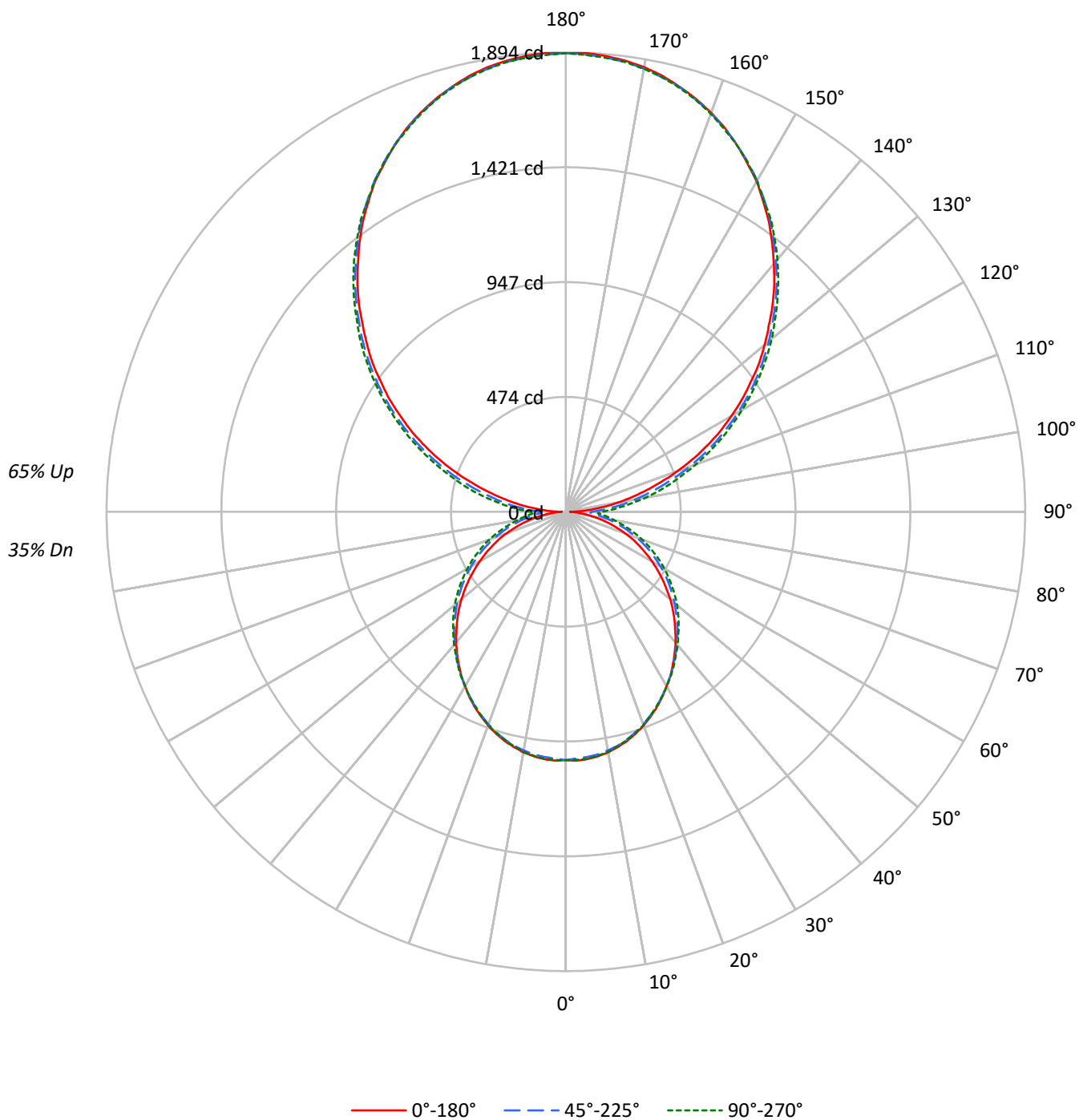
Lumens per Lamp: N/A
Luminaire Lumens: 8452.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
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	89	85	82		85	81	78	75		65	63	60		50	49	47		37	36	35
2	85	78	72	66		77	70	65	61		57	53	50		44	41	39		32	30	29
3	78	68	61	55		70	62	55	50		50	45	41		39	35	33		28	26	24
4	71	60	52	46		64	55	48	42		44	39	35		34	31	28		25	23	21
5	65	53	45	39		58	49	42	36		39	34	30		31	27	24		23	20	18
6	60	48	40	34		54	43	36	31		35	30	26		28	24	21		20	18	16
7	55	43	35	30		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	14	12
9	47	35	28	23		43	32	26	21		26	21	18		21	17	15		16	13	11
10	44	32	25	21		40	30	23	19		24	19	16		19	16	13		15	12	10

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	1.1
10°-20°	275.1	3.3
20°-30°	409.0	4.8
30°-40°	484.4	5.7
40°-50°	500.8	5.9
50°-60°	461.3	5.5
60°-70°	372.9	4.4
70°-80°	249.5	3.0
80°-90°	131.9	1.6
90°-100°	198.4	2.3
100°-110°	427.1	5.1
110°-120°	669.3	7.9
120°-130°	854.3	10.1
130°-140°	943.4	11.2
140°-150°	917.8	10.9
150°-160°	769.4	9.1
160°-170°	511.5	6.1
170°-180°	179.0	2.1
0°-30°	781.0	9.2
0°-40°	1265.4	15.0
0°-60°	2227.5	26.4
0°-90°	2981.9	35.3
90°-120°	1294.8	15.3
90°-150°	4010.2	47.4
90°-180°	5470.0	64.7
0°-180°	8452.0	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	18
95°	109	138	187	219	229	110
105°	344	368	407	436	447	367
115°	640	653	682	699	703	633
125°	930	937	959	972	976	833
135°	1206	1214	1222	1235	1234	929
145°	1459	1464	1468	1474	1473	912
155°	1669	1669	1670	1676	1669	769
165°	1814	1811	1813	1819	1810	512
175°	1886	1880	1880	1889	1879	179
180°	1891	1891	1891	1891	1891	

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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	136.3	147.7
92.5°	58.2	94.7	143.0	175.4	185.4
95°	108.7	137.8	186.6	219.0	228.9
97.5°	159.1	184.7	238.5	268.3	276.9
100°	217.0	238.1	289.3	323.7	332.7
102.5°	279.3	305.7	344.2	379.0	389.4
105°	344.5	367.9	406.9	435.8	447.2
107.5°	415.6	437.0	473.5	498.0	504.0
110°	489.6	509.1	541.6	565.1	570.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	566.1	578.2	611.2	630.6	634.8
115°	640.2	653.2	682.2	698.7	703.3
117.5°	715.7	722.2	750.2	768.8	769.9
120°	786.3	796.7	821.3	838.4	838.5
122.5°	861.8	864.3	890.8	905.5	907.0
125°	929.5	937.4	958.9	972.1	975.6
127.5°	1003.6	1007.0	1025.6	1039.1	1042.2
130°	1069.8	1076.1	1093.2	1105.7	1107.8
132.5°	1135.0	1148.2	1156.8	1169.4	1169.0
135°	1205.6	1213.5	1221.9	1235.0	1234.1
137.5°	1271.8	1279.7	1286.6	1300.2	1296.8
140°	1334.1	1341.5	1346.9	1360.9	1357.6
142.5°	1397.4	1402.3	1408.2	1418.6	1415.4
145°	1459.2	1464.1	1468.5	1473.5	1473.1
147.5°	1515.6	1520.0	1522.9	1529.4	1519.6
150°	1573.0	1571.5	1577.4	1577.4	1575.4
152.5°	1620.1	1623.0	1624.5	1628.9	1623.0
155°	1668.6	1668.6	1670.1	1676.0	1668.6
157.5°	1712.8	1709.8	1711.3	1717.2	1706.9
160°	1751.0	1746.6	1748.1	1754.0	1746.6
162.5°	1784.9	1781.9	1781.9	1789.3	1780.4
165°	1814.3	1811.3	1812.8	1818.7	1809.9
167.5°	1840.8	1834.9	1834.9	1843.7	1834.9
170°	1861.4	1855.5	1855.5	1864.3	1854.0
172.5°	1876.1	1870.2	1870.2	1879.0	1870.2
175°	1886.4	1880.5	1880.5	1889.3	1879.0
177.5°	1893.7	1887.9	1886.4	1895.2	1884.9
180°	1890.8	1890.8	1890.8	1890.8	1890.8

(END OF REPORT)