

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: P1034654

Luminaire Tested: S125DIW-B850D1560UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034654
REPORT IS A COMBINATION OF REPORTS P1004194 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-F1_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

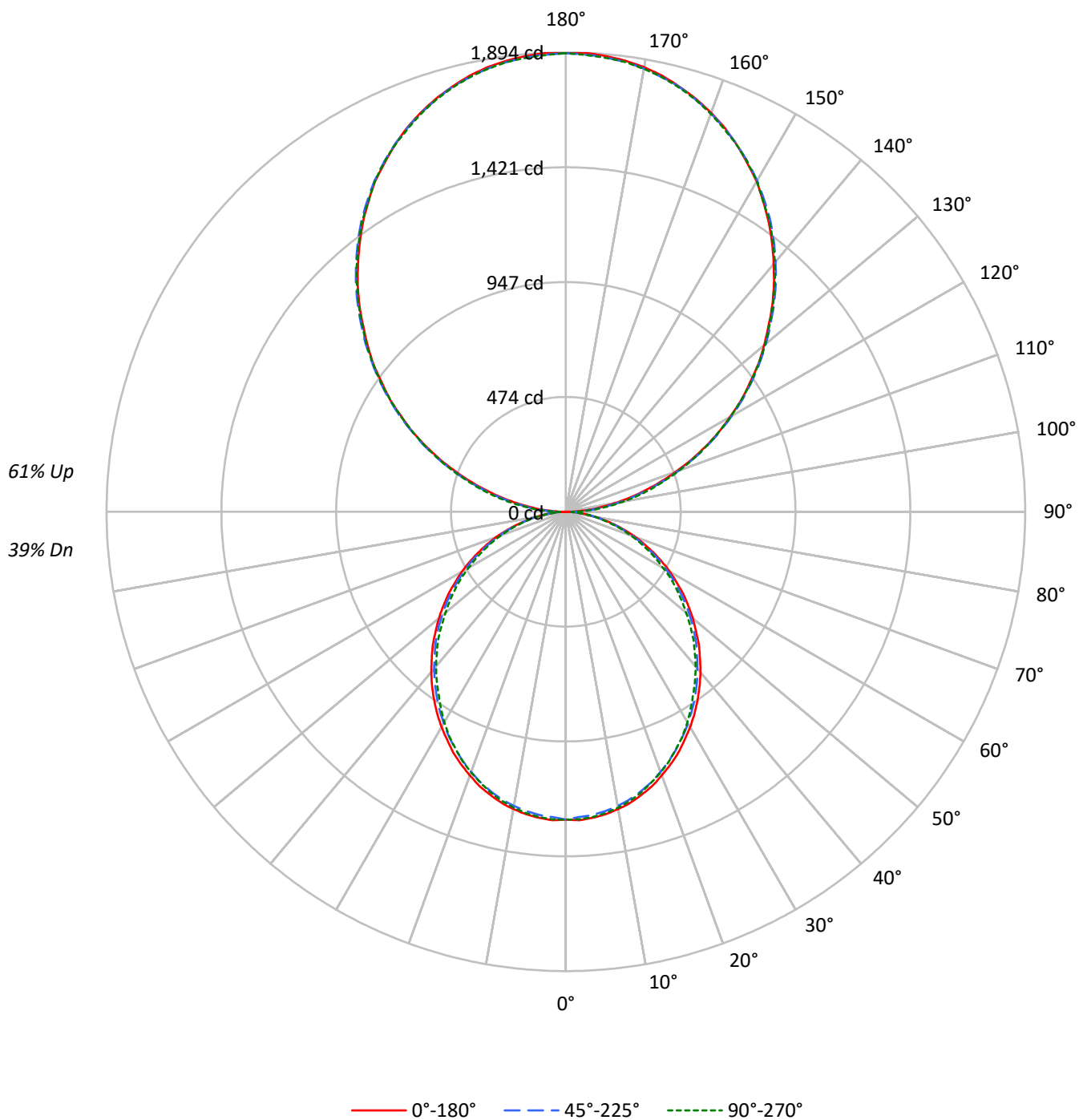
Lumens per Lamp: N/A
Luminaire Lumens: 8583.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1034654

CATALOG NUMBER: S125DIW-B850D1560UB2750-4F0-XX-W2A-F1_5000K

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	95	95	95	95	77	77	77	61	61	61	46	46	46
1	95	91	87	84	86	83	79	76	67	65	63	53	52	50	40	39	38
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32
3	79	70	62	57	71	64	57	52	52	47	44	41	38	35	31	29	27
4	72	62	54	48	65	56	49	44	46	41	37	37	33	30	28	26	24
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18
7	56	44	36	31	51	41	34	29	34	28	24	27	23	20	21	18	16
8	52	40	32	27	47	37	30	25	30	25	22	25	21	18	19	16	14
9	48	36	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8131	8131	8131
5°	8131	7942	7957
10°	8064	7760	7735
15°	7958	7542	7475
20°	7815	7289	7175
25°	7662	7014	6855
30°	7476	6727	6517
35°	7278	6427	6138
40°	7073	6109	5802
45°	6852	5799	5445
50°	6608	5448	5028
55°	6367	5060	4645
60°	6080	4651	4199
65°	5735	4178	3738
70°	5385	3635	3206
75°	4796	2992	2593
80°	4088	2235	1907
85°	3156	1321	1051

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6852 cd/sqm

TEST NUMBER: P1034654

CATALOG NUMBER: S125DIW-B850D1560UB2750-4F0-XX-W2A-F1_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	1.4
10°-20°	338.2	3.9
20°-30°	499.4	5.8
30°-40°	582.6	6.8
40°-50°	585.2	6.8
50°-60°	513.6	6.0
60°-70°	382.6	4.5
70°-80°	218.5	2.5
80°-90°	66.0	0.8
90°-100°	125.7	1.5
100°-110°	373.5	4.4
110°-120°	633.5	7.4
120°-130°	834.0	9.7
130°-140°	934.5	10.9
140°-150°	916.0	10.7
150°-160°	769.4	9.0
160°-170°	511.5	6.0
170°-180°	179.0	2.1
0°-30°	957.4	11.2
0°-40°	1540.0	17.9
0°-60°	2638.8	30.7
0°-90°	3305.9	38.5
90°-120°	1132.7	13.2
90°-150°	3817.2	44.5
90°-180°	5277.0	61.5
0°-180°	8583.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1267	1265	1255	1264	1263	120
15°	1208	1205	1194	1199	1199	341
25°	1096	1091	1078	1080	1077	504
35°	947	943	929	924	916	592
45°	775	771	759	747	744	597
55°	590	587	573	564	557	527
65°	399	397	386	376	372	395
75°	212	210	205	202	198	226
85°	55	56	56	55	53	60
90°	2	13	24	31	35	10
95°	96	99	113	124	126	100
105°	336	343	352	360	365	358
115°	634	640	643	642	640	627
125°	926	934	936	933	931	829
135°	1204	1212	1214	1214	1208	928
145°	1458	1464	1468	1468	1464	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	

TEST NUMBER: P1034654

CATALOG NUMBER: S125DIW-B850D1560UB2750-4F0-XX-W2A-F1_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.0	1269.0	1269.0	1269.0	1269.0
2.5°	1273.1	1270.0	1260.0	1270.0	1269.0
5°	1267.0	1265.0	1255.0	1264.0	1263.0
7.5°	1258.0	1256.0	1244.9	1254.0	1253.0
10°	1244.9	1242.9	1231.9	1239.9	1238.9
12.5°	1228.9	1224.9	1214.8	1220.8	1220.8
15°	1207.8	1204.8	1193.7	1198.8	1198.8
17.5°	1185.7	1180.7	1169.6	1175.7	1170.6
20°	1156.6	1154.6	1141.5	1148.6	1143.5
22.5°	1127.5	1123.5	1111.4	1115.4	1112.4
25°	1096.4	1091.3	1078.3	1080.3	1077.3
27.5°	1060.2	1057.2	1044.1	1045.2	1042.1
30°	1025.1	1022.1	1007.0	1005.0	1002.0
32.5°	986.9	981.9	968.8	964.8	958.8
35°	946.8	942.7	928.7	923.7	915.6
37.5°	905.6	900.6	887.5	880.5	875.5
40°	863.4	858.4	844.4	835.3	832.3
42.5°	818.2	814.2	800.2	792.1	787.1
45°	775.1	771.1	759.0	747.0	744.0
47.5°	727.9	728.9	713.8	701.8	694.8
50°	682.7	679.7	667.7	654.6	647.6
52.5°	636.5	634.5	621.5	610.4	602.4
55°	590.3	587.3	573.3	564.2	557.2
57.5°	541.1	540.1	528.1	516.0	513.0
60°	495.0	490.9	479.9	469.9	462.8
62.5°	446.8	443.8	434.7	423.7	418.7
65°	398.6	396.6	385.5	376.5	372.5
67.5°	351.4	347.4	339.3	331.3	329.3
70°	307.2	302.2	293.2	287.1	283.1
72.5°	259.0	256.0	251.0	244.0	240.0
75°	211.8	209.8	204.8	201.8	197.8
77.5°	167.7	166.7	163.6	161.6	158.6
80°	126.5	126.5	124.5	123.5	121.5
82.5°	90.4	88.4	88.4	86.3	86.3
85°	55.2	56.2	56.2	55.2	53.2
87.5°	27.1	27.1	26.1	26.1	24.1
90°	1.5	13.2	23.5	30.9	35.3
92.5°	44.1	51.5	64.7	75.0	78.0
95°	95.6	98.6	113.3	123.6	126.5
97.5°	147.1	148.6	169.2	178.0	179.5
100°	206.0	206.0	225.1	238.4	241.3
102.5°	269.3	276.6	284.0	298.7	303.1
105°	335.5	342.8	351.7	360.5	364.9
107.5°	407.6	414.9	422.3	426.7	426.7
110°	482.6	490.0	494.4	498.8	497.3

TEST NUMBER: P1034654

CATALOG NUMBER: S125DIW-B850D1560UB2750-4F0-XX-W2A-F1_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	559.1	562.1	568.0	569.4	566.5
115°	634.2	640.1	643.0	641.5	640.1
117.5°	710.7	712.2	715.1	716.6	710.7
120°	781.3	788.7	790.2	790.2	784.3
122.5°	857.8	859.3	863.7	862.3	857.8
125°	925.5	934.4	935.8	932.9	931.4
127.5°	1000.6	1005.0	1006.5	1005.0	1002.0
130°	1066.8	1074.1	1077.1	1075.6	1072.7
132.5°	1133.0	1146.2	1144.8	1143.3	1138.9
135°	1203.6	1212.5	1213.9	1213.9	1208.0
137.5°	1269.8	1278.7	1281.6	1283.1	1275.7
140°	1333.1	1340.5	1344.9	1347.8	1340.5
142.5°	1396.4	1402.3	1408.2	1409.6	1402.3
145°	1458.2	1464.1	1468.5	1468.5	1464.1
147.5°	1515.6	1520.0	1522.9	1527.4	1515.6
150°	1573.0	1571.5	1577.4	1577.4	1574.4
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)