

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: P1035612

Luminaire Tested: S125DIW-B850D1560UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035612
REPORT IS A COMBINATION OF REPORTS P1004234 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1560UB50-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

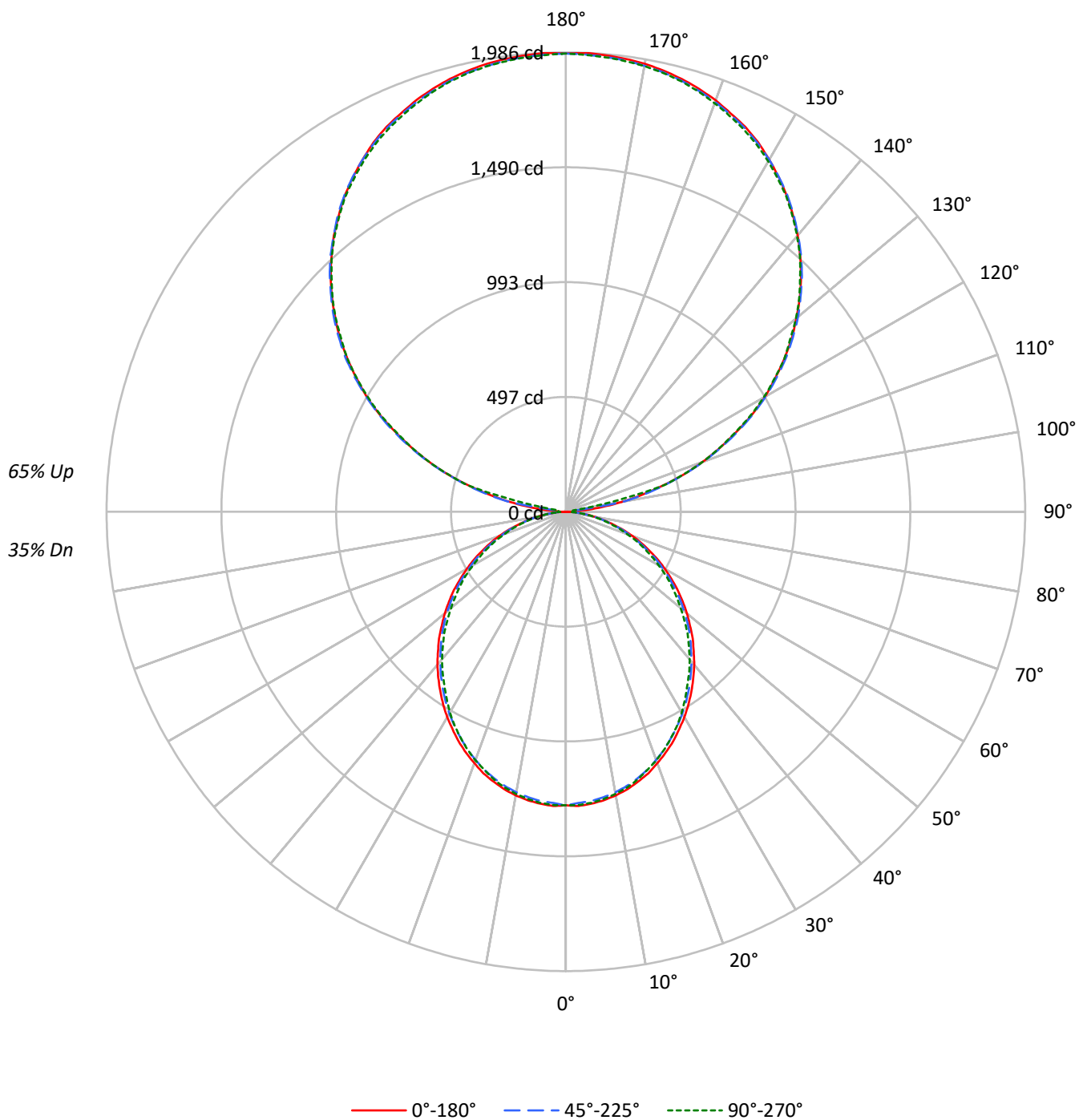
Lumens per Lamp: N/A
Luminaire Lumens: 9392.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35		
1	94	90	86	83	85	82	78	76	66	63	61	51	50	48	37	37	36	30		
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30	25		
3	78	69	62	56	71	63	57	52	51	46	43	40	36	34	29	27	26	21		
4	72	61	53	47	64	55	49	44	45	40	36	35	32	29	26	24	22	18		
5	66	54	46	41	59	49	43	37	40	35	31	31	28	25	23	21	19	16		
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17	14		
7	56	44	36	31	50	40	33	28	33	27	24	26	22	19	19	17	15	12		
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13	11		
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12	10		
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11	9		

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	1.3
10°-20°	338.2	3.6
20°-30°	499.4	5.3
30°-40°	582.6	6.2
40°-50°	585.2	6.2
50°-60°	513.6	5.5
60°-70°	382.6	4.1
70°-80°	218.5	2.3
80°-90°	66.0	0.7
90°-100°	67.2	0.7
100°-110°	447.2	4.8
110°-120°	805.2	8.6
120°-130°	1033.6	11.0
130°-140°	1111.6	11.8
140°-150°	1043.3	11.1
150°-160°	843.9	9.0
160°-170°	545.8	5.8
170°-180°	188.2	2.0
0°-30°	957.4	10.2
0°-40°	1540.0	16.4
0°-60°	2638.8	28.1
0°-90°	3305.9	35.2
90°-120°	1319.6	14.1
90°-150°	4508.1	48.0
90°-180°	6086.0	64.8
0°-180°	9392.0	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	8
95°	84	79	24	31	31	103
105°	432	438	438	438	436	457
115°	811	818	820	814	805	804
125°	1153	1163	1163	1157	1153	1030
135°	1438	1447	1444	1441	1432	1109
145°	1667	1670	1670	1671	1663	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°	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	30.8	35.2
92.5°	27.9	14.7	23.5	30.8	32.3
95°	83.7	79.3	23.5	30.8	30.8
97.5°	157.2	166.0	26.4	29.4	30.8
100°	245.3	249.7	255.6	36.7	30.8
102.5°	334.9	340.7	343.7	346.6	223.2
105°	431.8	437.7	437.7	437.7	436.2
107.5°	531.7	531.7	534.6	536.1	530.2
110°	628.6	628.6	631.5	627.1	628.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	719.7	724.1	725.5	719.7	716.7
115°	810.7	818.1	819.5	813.7	804.8
117.5°	906.2	906.2	912.1	903.3	900.3
120°	994.3	992.8	997.2	994.3	987.0
122.5°	1072.2	1079.5	1081.0	1078.0	1069.2
125°	1152.9	1163.2	1163.2	1157.3	1152.9
127.5°	1230.8	1238.1	1236.6	1233.7	1222.0
130°	1301.3	1308.6	1310.1	1305.7	1298.3
132.5°	1371.8	1380.6	1376.2	1376.2	1368.8
135°	1437.9	1446.7	1443.7	1440.8	1432.0
137.5°	1499.5	1508.4	1505.4	1505.4	1498.1
140°	1559.8	1562.7	1561.2	1564.2	1555.4
142.5°	1614.1	1615.6	1618.5	1618.5	1609.7
145°	1667.0	1669.9	1669.9	1671.4	1662.6
147.5°	1714.0	1714.0	1715.4	1716.9	1706.6
150°	1758.0	1755.1	1758.0	1761.0	1749.2
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)