

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: P1035601

Luminaire Tested: S125DIW-B850D1560UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035601
REPORT IS A COMBINATION OF REPORTS P1004217 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1560UB35-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

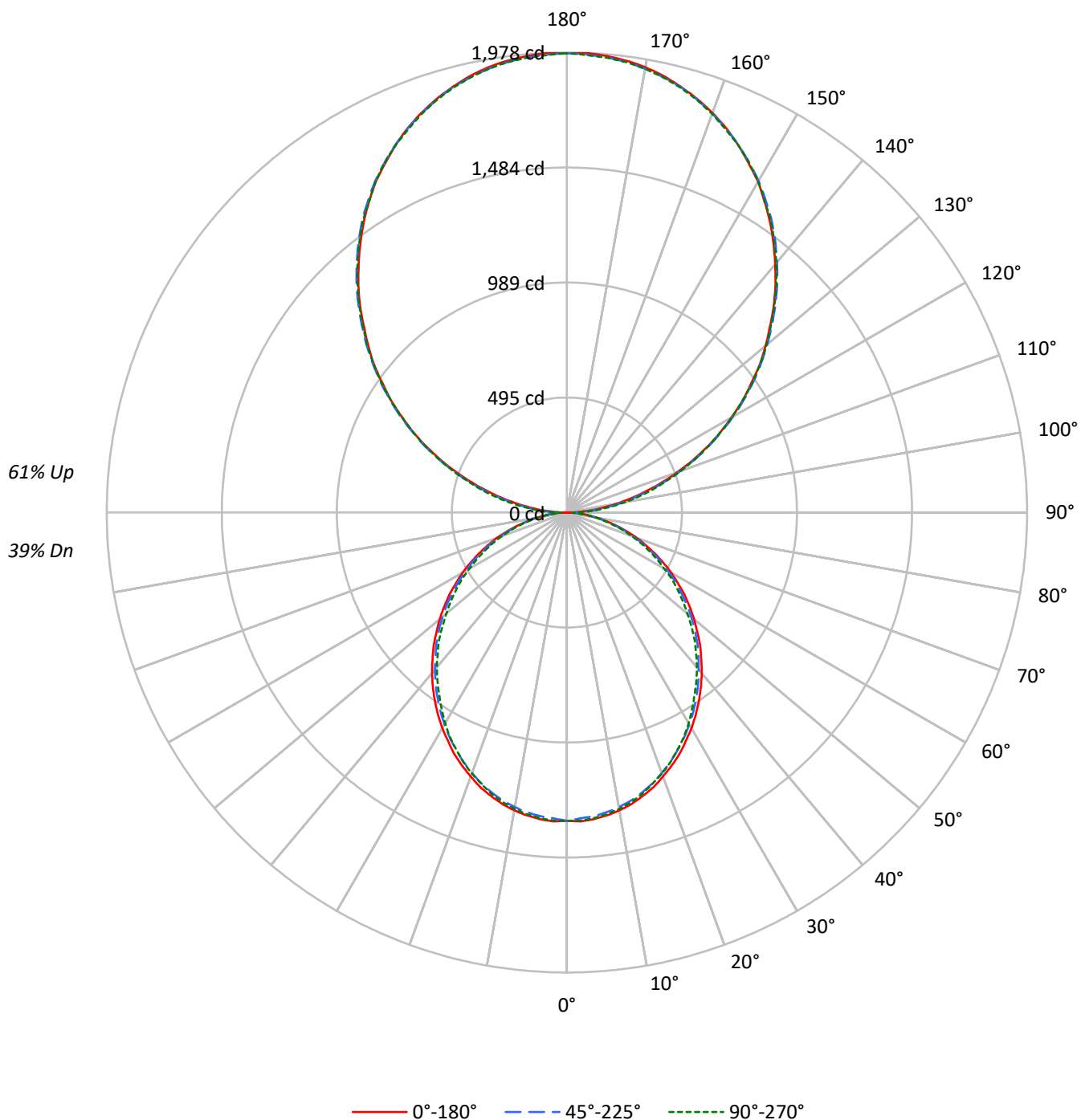
Lumens per Lamp: N/A
Luminaire Lumens: 8965.0 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
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	95	95	95	95	77	77	77	61	61	61	46	46	46	39		
1	95	91	87	84	86	83	79	76	67	65	63	53	52	50	40	39	38	32		
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27		
3	79	70	62	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23		
4	72	62	54	48	65	56	49	44	46	41	37	37	33	30	28	26	24	20		
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17		
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15		
7	56	44	36	31	51	41	34	29	34	28	24	27	23	20	21	18	16	13		
8	52	40	32	27	47	37	30	25	30	25	22	25	21	18	19	16	14	12		
9	48	36	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11		
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8493	8493	8493
5°	8493	8295	8311
10°	8423	8105	8080
15°	8313	7878	7807
20°	8163	7614	7494
25°	8002	7327	7160
30°	7809	7027	6807
35°	7602	6713	6412
40°	7388	6380	6060
45°	7157	6057	5687
50°	6902	5690	5252
55°	6650	5285	4852
60°	6350	4858	4386
65°	5990	4364	3905
70°	5625	3796	3349
75°	5011	3125	2708
80°	4269	2334	1992
85°	3299	1380	1098

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7157 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	1.4
10°-20°	353.3	3.9
20°-30°	521.6	5.8
30°-40°	608.6	6.8
40°-50°	611.2	6.8
50°-60°	536.5	6.0
60°-70°	399.6	4.5
70°-80°	228.2	2.5
80°-90°	69.0	0.8
90°-100°	131.3	1.5
100°-110°	390.1	4.4
110°-120°	661.7	7.4
120°-130°	871.1	9.7
130°-140°	976.1	10.9
140°-150°	956.8	10.7
150°-160°	803.6	9.0
160°-170°	534.2	6.0
170°-180°	186.9	2.1
0°-30°	1000.0	11.2
0°-40°	1608.5	17.9
0°-60°	2756.3	30.7
0°-90°	3453.1	38.5
90°-120°	1183.1	13.2
90°-150°	3987.1	44.5
90°-180°	5512.0	61.5
0°-180°	8965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1323	1321	1311	1320	1319	126
15°	1262	1258	1247	1252	1252	356
25°	1145	1140	1126	1128	1125	527
35°	989	985	970	965	956	619
45°	810	805	793	780	777	624
55°	617	614	599	589	582	550
65°	416	414	403	393	389	413
75°	221	219	214	211	207	236
85°	58	59	59	58	56	63
90°	2	14	25	32	37	11
95°	100	103	118	129	132	104
105°	350	358	367	376	381	374
115°	662	669	672	670	669	655
125°	967	976	978	974	973	866
135°	1257	1266	1268	1268	1262	969
145°	1523	1529	1534	1534	1529	952
155°	1743	1743	1744	1751	1743	803
165°	1895	1892	1894	1900	1890	535
175°	1970	1964	1964	1973	1963	187
180°	1975	1975	1975	1975	1975	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.5	1325.5	1325.5	1325.5	1325.5
2.5°	1329.7	1326.6	1316.1	1326.6	1325.5
5°	1323.4	1321.3	1310.8	1320.3	1319.2
7.5°	1314.0	1311.9	1300.4	1309.8	1308.7
10°	1300.4	1298.3	1286.7	1295.1	1294.1
12.5°	1283.6	1279.4	1268.9	1275.2	1275.2
15°	1261.6	1258.4	1246.9	1252.1	1252.1
17.5°	1238.5	1233.2	1221.7	1228.0	1222.7
20°	1208.1	1206.0	1192.3	1199.7	1194.4
22.5°	1177.7	1173.5	1160.9	1165.1	1161.9
25°	1145.1	1139.9	1126.3	1128.4	1125.2
27.5°	1107.4	1104.2	1090.6	1091.7	1088.5
30°	1070.7	1067.5	1051.8	1049.7	1046.6
32.5°	1030.8	1025.6	1012.0	1007.8	1001.5
35°	988.9	984.7	970.0	964.8	956.4
37.5°	945.9	940.7	927.0	919.7	914.4
40°	901.9	896.6	881.9	872.5	869.3
42.5°	854.7	850.5	835.8	827.4	822.2
45°	809.6	805.4	792.8	780.2	777.1
47.5°	760.3	761.3	745.6	733.0	725.7
50°	713.1	709.9	697.4	683.7	676.4
52.5°	664.9	662.8	649.1	637.6	629.2
55°	616.6	613.5	598.8	589.4	582.0
57.5°	565.2	564.2	551.6	539.0	535.9
60°	517.0	512.8	501.3	490.8	483.4
62.5°	466.7	463.5	454.1	442.5	437.3
65°	416.3	414.2	402.7	393.3	389.1
67.5°	367.0	362.8	354.5	346.1	344.0
70°	320.9	315.6	306.2	299.9	295.7
72.5°	270.6	267.4	262.2	254.8	250.6
75°	221.3	219.2	213.9	210.8	206.6
77.5°	175.1	174.1	170.9	168.8	165.7
80°	132.1	132.1	130.0	129.0	126.9
82.5°	94.4	92.3	92.3	90.2	90.2
85°	57.7	58.7	58.7	57.7	55.6
87.5°	28.3	28.3	27.3	27.3	25.2
90°	1.5	13.8	24.6	32.3	36.9
92.5°	46.1	53.8	67.6	78.4	81.5
95°	99.9	103.0	118.3	129.1	132.2
97.5°	153.7	155.2	176.7	186.0	187.5
100°	215.2	215.2	235.1	249.0	252.1
102.5°	281.3	288.9	296.6	312.0	316.6
105°	350.4	358.1	367.3	376.5	381.2
107.5°	425.7	433.4	441.1	445.7	445.7
110°	504.1	511.8	516.4	521.0	519.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	584.0	587.1	593.3	594.8	591.7
115°	662.4	668.6	671.6	670.1	668.6
117.5°	742.3	743.9	746.9	748.5	742.3
120°	816.1	823.8	825.3	825.3	819.2
122.5°	896.0	897.6	902.2	900.6	896.0
125°	966.7	975.9	977.5	974.4	972.9
127.5°	1045.1	1049.7	1051.3	1049.7	1046.6
130°	1114.3	1122.0	1125.0	1123.5	1120.4
132.5°	1183.4	1197.3	1195.7	1194.2	1189.6
135°	1257.2	1266.4	1268.0	1268.0	1261.8
137.5°	1326.4	1335.6	1338.7	1340.2	1332.5
140°	1392.5	1400.1	1404.8	1407.8	1400.1
142.5°	1458.5	1464.7	1470.8	1472.4	1464.7
145°	1523.1	1529.2	1533.9	1533.9	1529.2
147.5°	1583.0	1587.6	1590.7	1595.3	1583.0
150°	1643.0	1641.4	1647.6	1647.6	1644.5
152.5°	1692.2	1695.2	1696.8	1701.4	1695.2
155°	1742.9	1742.9	1744.4	1750.6	1742.9
157.5°	1789.0	1785.9	1787.4	1793.6	1782.8
160°	1828.9	1824.3	1825.9	1832.0	1824.3
162.5°	1864.3	1861.2	1861.2	1868.9	1859.7
165°	1895.0	1892.0	1893.5	1899.6	1890.4
167.5°	1922.7	1916.5	1916.5	1925.8	1916.5
170°	1944.2	1938.1	1938.1	1947.3	1936.5
172.5°	1959.6	1953.4	1953.4	1962.7	1953.4
175°	1970.3	1964.2	1964.2	1973.4	1962.7
177.5°	1978.0	1971.9	1970.3	1979.6	1968.8
180°	1974.9	1974.9	1974.9	1974.9	1974.9

(END OF REPORT)