

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: P1035544

Luminaire Tested: S125DIW-B850D1050UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035544
REPORT IS A COMBINATION OF REPORTS P1004085 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D1050UB35-4F0-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

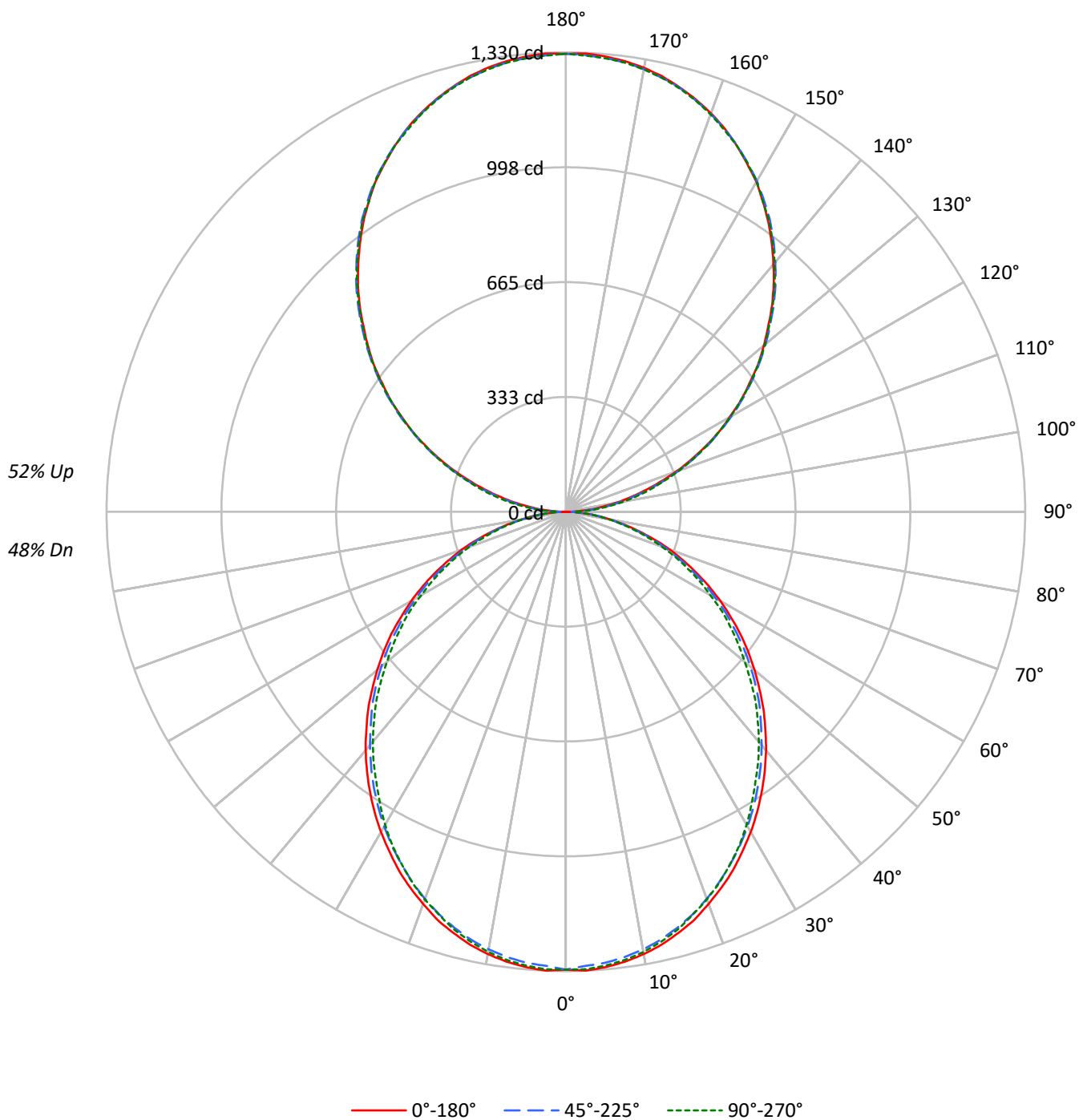
Lumens per Lamp: N/A
Luminaire Lumens: 7153.0 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.4
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55
1	97	93	89	86	89	86	82	79	72	70	67	60	58	56	48	47	46
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39
3	81	71	64	58	74	66	59	54	56	51	47	46	43	40	37	35	33
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	31	28
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	25
6	62	50	42	36	57	47	40	34	40	34	30	33	29	26	27	24	22
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	19	16	20	16	14

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	1.7
10°-20°	353.3	4.9
20°-30°	521.6	7.3
30°-40°	608.6	8.5
40°-50°	611.2	8.5
50°-60°	536.5	7.5
60°-70°	399.6	5.6
70°-80°	228.2	3.2
80°-90°	68.0	1.0
90°-100°	88.2	1.2
100°-110°	262.0	3.7
110°-120°	444.3	6.2
120°-130°	584.9	8.2
130°-140°	655.4	9.2
140°-150°	642.4	9.0
150°-160°	539.6	7.5
160°-170°	358.7	5.0
170°-180°	125.5	1.8
0°-30°	1000.0	14.0
0°-40°	1608.5	22.5
0°-60°	2756.3	38.5
0°-90°	3452.1	48.3
90°-120°	794.4	11.1
90°-150°	2677.1	37.4
90°-180°	3701.0	51.7
0°-180°	7153.0	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°	1	9	16	22	25	8
95°	67	69	80	87	89	70
105°	235	240	247	253	256	251
115°	445	449	451	450	449	440
125°	649	655	656	654	653	582
135°	844	850	851	851	847	651
145°	1023	1027	1030	1030	1027	639
155°	1170	1170	1171	1175	1170	539
165°	1272	1270	1271	1276	1269	359
175°	1323	1319	1319	1325	1318	126
180°	1326	1326	1326	1326	1326	

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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°	1.0	9.3	16.5	21.7	24.8
92.5°	31.0	36.1	45.4	52.6	54.7
95°	67.1	69.1	79.5	86.7	88.7
97.5°	103.2	104.2	118.7	124.9	125.9
100°	144.5	144.5	157.9	167.2	169.2
102.5°	188.8	194.0	199.2	209.5	212.6
105°	235.3	240.4	246.6	252.8	255.9
107.5°	285.9	291.0	296.2	299.3	299.3
110°	338.5	343.6	346.7	349.8	348.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	392.1	394.2	398.3	399.4	397.3
115°	444.8	448.9	451.0	449.9	448.9
117.5°	498.4	499.5	501.5	502.6	498.4
120°	548.0	553.1	554.2	554.2	550.0
122.5°	601.6	602.7	605.8	604.7	601.6
125°	649.1	655.3	656.3	654.3	653.2
127.5°	701.7	704.8	705.9	704.8	702.8
130°	748.2	753.3	755.4	754.4	752.3
132.5°	794.6	803.9	802.9	801.8	798.7
135°	844.1	850.3	851.4	851.4	847.2
137.5°	890.6	896.8	898.8	899.9	894.7
140°	935.0	940.1	943.2	945.3	940.1
142.5°	979.3	983.5	987.6	988.6	983.5
145°	1022.7	1026.8	1029.9	1029.9	1026.8
147.5°	1062.9	1066.0	1068.1	1071.2	1062.9
150°	1103.2	1102.1	1106.3	1106.3	1104.2
152.5°	1136.2	1138.2	1139.3	1142.4	1138.2
155°	1170.2	1170.2	1171.3	1175.4	1170.2
157.5°	1201.2	1199.1	1200.2	1204.3	1197.1
160°	1228.0	1224.9	1226.0	1230.1	1224.9
162.5°	1251.8	1249.7	1249.7	1254.9	1248.7
165°	1272.4	1270.3	1271.4	1275.5	1269.3
167.5°	1291.0	1286.8	1286.8	1293.0	1286.8
170°	1305.4	1301.3	1301.3	1307.5	1300.3
172.5°	1315.7	1311.6	1311.6	1317.8	1311.6
175°	1323.0	1318.8	1318.8	1325.0	1317.8
177.5°	1328.1	1324.0	1323.0	1329.2	1321.9
180°	1326.1	1326.1	1326.1	1326.1	1326.1

(END OF REPORT)