

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: P1035661

Luminaire Tested: S125DIW-B850D770UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035661
REPORT IS A COMBINATION OF REPORTS P1004349 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D770UB35-4F0-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

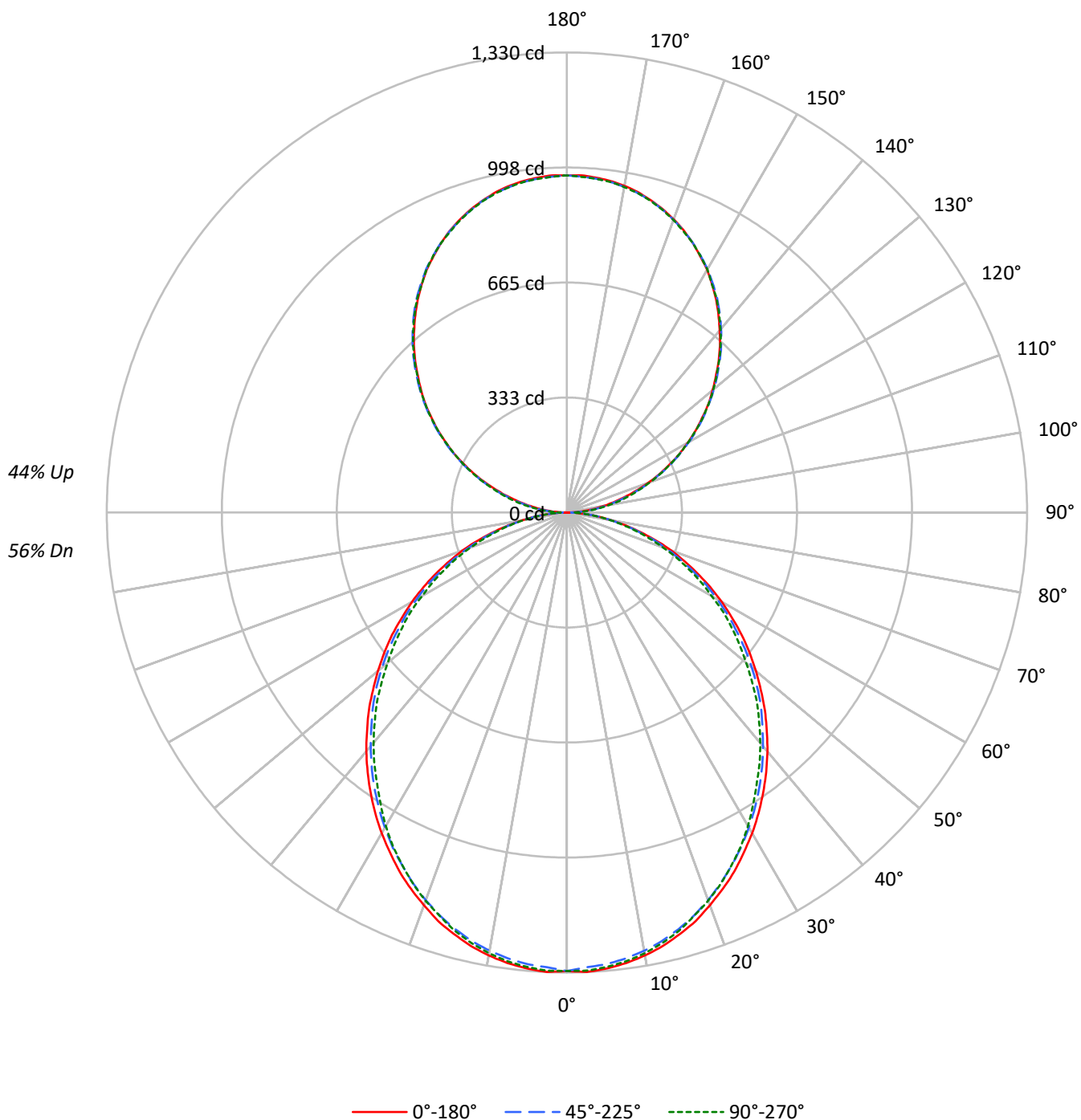
Lumens per Lamp: N/A
Luminaire Lumens: 6171.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 59.1
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
RCR																	
0	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	99	95	91	87	92	88	85	82	76	73	71	65	63	61	54	53	52
2	90	83	76	71	84	77	72	67	66	62	59	57	54	51	48	46	44
3	82	73	65	59	76	68	61	56	59	54	49	50	46	43	42	40	37
4	75	64	56	50	70	60	53	47	52	47	42	45	40	37	38	35	32
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	31	28
6	64	51	43	37	59	48	41	35	42	36	32	36	32	28	31	27	25
7	59	46	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16

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	2.0
10°-20°	353.3	5.7
20°-30°	521.6	8.5
30°-40°	608.6	9.9
40°-50°	611.2	9.9
50°-60°	536.5	8.7
60°-70°	399.6	6.5
70°-80°	228.2	3.7
80°-90°	67.4	1.1
90°-100°	64.8	1.1
100°-110°	192.5	3.1
110°-120°	326.5	5.3
120°-130°	429.8	7.0
130°-140°	481.6	7.8
140°-150°	472.0	7.6
150°-160°	396.5	6.4
160°-170°	263.6	4.3
170°-180°	92.2	1.5
0°-30°	1000.0	16.2
0°-40°	1608.5	26.1
0°-60°	2756.3	44.7
0°-90°	3451.5	55.9
90°-120°	583.8	9.5
90°-150°	1967.2	31.9
90°-180°	2720.0	44.1
0°-180°	6171.0	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	7	12	16	18	7
95°	49	51	58	64	65	52
105°	173	177	181	186	188	184
115°	327	330	331	331	330	323
125°	477	482	482	481	480	427
135°	620	625	626	626	623	478
145°	752	754	757	757	754	470
155°	860	860	861	864	860	396
165°	935	934	934	937	933	264
175°	972	969	969	974	968	92
180°	974	974	974	974	974	

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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°	0.8	6.8	12.1	15.9	18.2
92.5°	22.7	26.5	33.4	38.7	40.2
95°	49.3	50.8	58.4	63.7	65.2
97.5°	75.8	76.6	87.2	91.8	92.5
100°	106.2	106.2	116.0	122.8	124.4
102.5°	138.8	142.6	146.4	153.9	156.2
105°	172.9	176.7	181.2	185.8	188.1
107.5°	210.0	213.8	217.6	219.9	219.9
110°	248.7	252.5	254.8	257.1	256.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	289.7	292.7	293.5	291.9
115°	326.8	329.9	331.4	330.6	329.9
117.5°	366.3	367.0	368.5	369.3	366.3
120°	402.7	406.4	407.2	407.2	404.2
122.5°	442.1	442.8	445.1	444.4	442.1
125°	477.0	481.5	482.3	480.8	480.0
127.5°	515.6	517.9	518.7	517.9	516.4
130°	549.8	553.6	555.1	554.3	552.8
132.5°	583.9	590.7	590.0	589.2	586.9
135°	620.3	624.8	625.6	625.6	622.6
137.5°	654.4	659.0	660.5	661.2	657.4
140°	687.0	690.8	693.1	694.6	690.8
142.5°	719.6	722.7	725.7	726.4	722.7
145°	751.5	754.5	756.8	756.8	754.5
147.5°	781.0	783.3	784.8	787.1	781.0
150°	810.6	809.9	812.9	812.9	811.4
152.5°	834.9	836.4	837.2	839.4	836.4
155°	859.9	859.9	860.7	863.7	859.9
157.5°	882.7	881.1	881.9	884.9	879.6
160°	902.4	900.1	900.8	903.9	900.1
162.5°	919.8	918.3	918.3	922.1	917.5
165°	935.0	933.5	934.2	937.2	932.7
167.5°	948.6	945.6	945.6	950.1	945.6
170°	959.2	956.2	956.2	960.8	955.4
172.5°	966.8	963.8	963.8	968.3	963.8
175°	972.1	969.1	969.1	973.6	968.3
177.5°	975.9	972.9	972.1	976.7	971.4
180°	974.4	974.4	974.4	974.4	974.4

(END OF REPORT)