

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: P1026992

Luminaire Tested: S125DIP-B850D1090UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026992
REPORT IS A COMBINATION OF REPORTS P1002441 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1090UB2750-4F0-XX-W2A-F_4000K
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

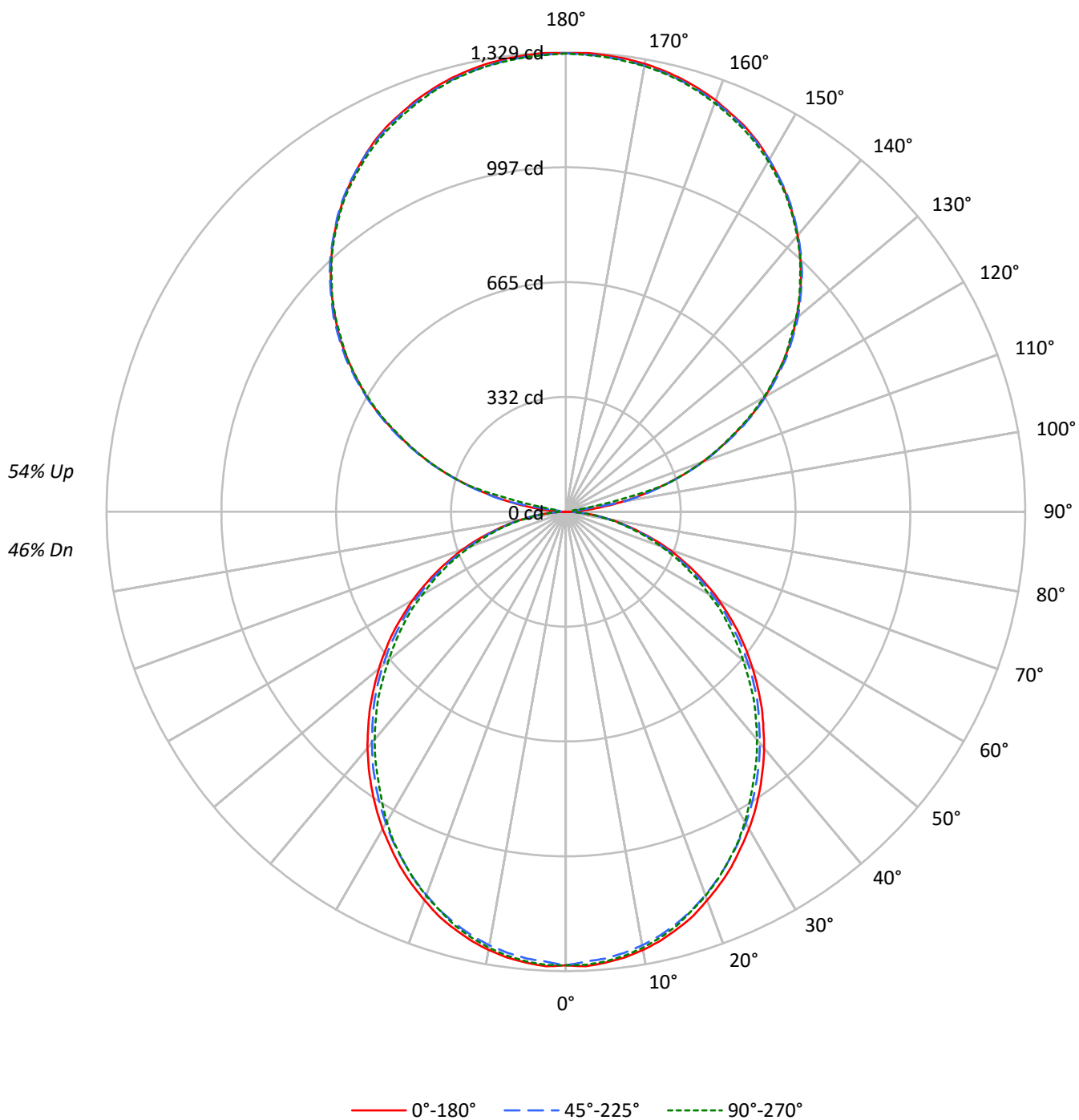
Lumens per Lamp: N/A
Luminaire Lumens: 7490.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
Input Voltage (V):
Input Current (A_{in}): 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	106	106	106	106	97	97	97	97		81	81	81		66	66	66		52	52	52
1	97	92	89	85	89	85	82	79		71	68	66		58	56	55		46	45	44
2	88	81	75	69	80	74	69	64		62	58	55		51	48	46		40	39	37
3	80	71	64	58	73	65	59	54		55	50	46		45	41	39		36	33	31
4	73	63	55	49	67	58	51	46		49	43	39		40	36	33		32	29	27
5	67	56	48	42	62	52	44	39		43	38	34		36	32	29		29	26	24
6	62	50	42	36	57	46	39	34		39	34	29		32	28	25		26	23	21
7	57	45	37	32	52	42	35	30		35	30	26		29	25	22		24	21	18
8	53	41	33	28	49	38	31	26		32	27	23		27	23	20		22	19	16
9	49	37	30	25	45	35	28	23		30	24	21		25	21	18		20	17	15
10	46	34	27	22	42	32	25	21		27	22	18		23	19	16		19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8407	8407	8407
5°	8407	8211	8227
10°	8338	8023	7998
15°	8228	7798	7728
20°	8080	7537	7418
25°	7921	7252	7087
30°	7729	6955	6738
35°	7525	6645	6347
40°	7313	6316	5999
45°	7084	5996	5629
50°	6833	5632	5198
55°	6583	5231	4802
60°	6285	4809	4341
65°	5930	4320	3865
70°	5567	3757	3315
75°	4959	3095	2681
80°	4227	2311	1972
85°	3265	1366	1086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7084 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	1.7
10°-20°	349.7	4.7
20°-30°	516.3	6.9
30°-40°	602.4	8.0
40°-50°	605.0	8.1
50°-60°	531.1	7.1
60°-70°	395.6	5.3
70°-80°	225.9	3.0
80°-90°	67.2	0.9
90°-100°	45.0	0.6
100°-110°	299.2	4.0
110°-120°	538.9	7.2
120°-130°	691.7	9.2
130°-140°	744.0	9.9
140°-150°	698.2	9.3
150°-160°	564.8	7.5
160°-170°	365.3	4.9
170°-180°	126.0	1.7
0°-30°	989.8	13.2
0°-40°	1592.2	21.3
0°-60°	2728.3	36.4
0°-90°	3416.9	45.6
90°-120°	883.1	11.8
90°-150°	3017.0	40.3
90°-180°	4073.0	54.4
0°-180°	7490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1312	1312	1312	1312	1312	
5°	1310	1308	1298	1307	1306	124
15°	1249	1246	1234	1239	1239	352
25°	1134	1128	1115	1117	1114	522
35°	979	975	960	955	947	612
45°	801	797	785	772	769	617
55°	610	607	593	583	576	545
65°	412	410	399	389	385	409
75°	219	217	212	209	204	233
85°	57	58	58	57	55	63
90°	1	9	16	21	24	7
95°	56	53	16	21	21	69
105°	289	293	293	293	292	306
115°	543	548	548	544	539	538
125°	772	778	778	774	772	689
135°	962	968	966	964	958	742
145°	1116	1118	1118	1119	1113	698
155°	1229	1223	1225	1228	1220	566
165°	1296	1291	1292	1297	1290	366
175°	1326	1320	1321	1329	1320	126
180°	1326	1326	1326	1326	1326	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1312.1	1312.1	1312.1	1312.1	1312.1
2.5°	1316.2	1313.1	1302.7	1313.1	1312.1
5°	1310.0	1307.9	1297.5	1306.9	1305.8
7.5°	1300.7	1298.6	1287.2	1296.5	1295.5
10°	1287.2	1285.1	1273.7	1282.0	1280.9
12.5°	1270.6	1266.4	1256.0	1262.2	1262.2
15°	1248.8	1245.6	1234.2	1239.4	1239.4
17.5°	1225.9	1220.7	1209.3	1215.5	1210.3
20°	1195.8	1193.7	1180.2	1187.5	1182.3
22.5°	1165.7	1161.6	1149.1	1153.3	1150.1
25°	1133.5	1128.3	1114.8	1116.9	1113.8
27.5°	1096.2	1093.0	1079.6	1080.6	1077.5
30°	1059.8	1056.7	1041.1	1039.1	1036.0
32.5°	1020.4	1015.2	1001.7	997.5	991.3
35°	978.9	974.7	960.2	955.0	946.7
37.5°	936.3	931.1	917.6	910.4	905.2
40°	892.7	887.5	873.0	863.6	860.5
42.5°	846.0	841.8	827.3	819.0	813.8
45°	801.4	797.2	784.8	772.3	769.2
47.5°	752.6	753.6	738.0	725.6	718.3
50°	705.9	702.7	690.3	676.8	669.5
52.5°	658.1	656.0	642.5	631.1	622.8
55°	610.4	607.2	592.7	583.4	576.1
57.5°	559.5	558.5	546.0	533.5	530.4
60°	511.7	507.6	496.2	485.8	478.5
62.5°	461.9	458.8	449.5	438.0	432.9
65°	412.1	410.0	398.6	389.3	385.1
67.5°	363.3	359.2	350.9	342.6	340.5
70°	317.6	312.4	303.1	296.9	292.7
72.5°	267.8	264.7	259.5	252.2	248.1
75°	219.0	216.9	211.8	208.6	204.5
77.5°	173.4	172.3	169.2	167.1	164.0
80°	130.8	130.8	128.7	127.7	125.6
82.5°	93.4	91.3	91.3	89.3	89.3
85°	57.1	58.1	58.1	57.1	55.0
87.5°	28.0	28.0	27.0	27.0	24.9
90°	1.0	8.8	15.7	20.6	23.6
92.5°	18.7	9.8	15.7	20.6	21.6
95°	56.0	53.1	15.7	20.6	20.6
97.5°	105.2	111.1	17.7	19.7	20.6
100°	164.1	167.1	171.0	24.6	20.6
102.5°	224.1	228.0	230.0	232.0	149.4
105°	289.0	292.9	292.9	292.9	291.9
107.5°	355.8	355.8	357.8	358.8	354.8
110°	420.7	420.7	422.7	419.7	420.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	481.6	484.6	485.6	481.6	479.7
115°	542.6	547.5	548.5	544.5	538.6
117.5°	606.5	606.5	610.4	604.5	602.5
120°	665.4	664.4	667.4	665.4	660.5
122.5°	717.5	722.4	723.4	721.5	715.6
125°	771.6	778.5	778.5	774.5	771.6
127.5°	823.7	828.6	827.6	825.6	817.8
130°	870.9	875.8	876.8	873.8	868.9
132.5°	918.0	923.9	921.0	921.0	916.1
135°	962.3	968.2	966.2	964.2	958.3
137.5°	1003.6	1009.5	1007.5	1007.5	1002.6
140°	1043.9	1045.8	1044.8	1046.8	1040.9
142.5°	1080.2	1081.2	1083.2	1083.2	1077.3
145°	1115.6	1117.6	1117.6	1118.6	1112.7
147.5°	1147.1	1147.1	1148.0	1149.0	1142.1
150°	1176.5	1174.6	1176.5	1178.5	1170.6
152.5°	1205.1	1200.1	1202.1	1204.1	1197.2
155°	1228.6	1222.7	1224.7	1227.7	1219.8
157.5°	1247.3	1244.4	1244.4	1247.3	1239.5
160°	1267.0	1261.1	1262.1	1266.0	1258.1
162.5°	1282.7	1276.8	1277.8	1283.7	1274.8
165°	1296.5	1290.6	1291.5	1297.4	1289.6
167.5°	1307.3	1301.4	1302.4	1309.2	1300.4
170°	1316.1	1309.2	1310.2	1318.1	1309.2
172.5°	1322.0	1315.1	1317.1	1324.0	1315.1
175°	1325.9	1320.1	1321.0	1328.9	1320.1
177.5°	1328.9	1323.0	1324.0	1330.9	1323.0
180°	1325.9	1325.9	1325.9	1325.9	1325.9

(END OF REPORT)