

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: P1028271

Luminaire Tested: S125DIP-B850D1270UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028271
REPORT IS A COMBINATION OF REPORTS P1002528 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB40-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

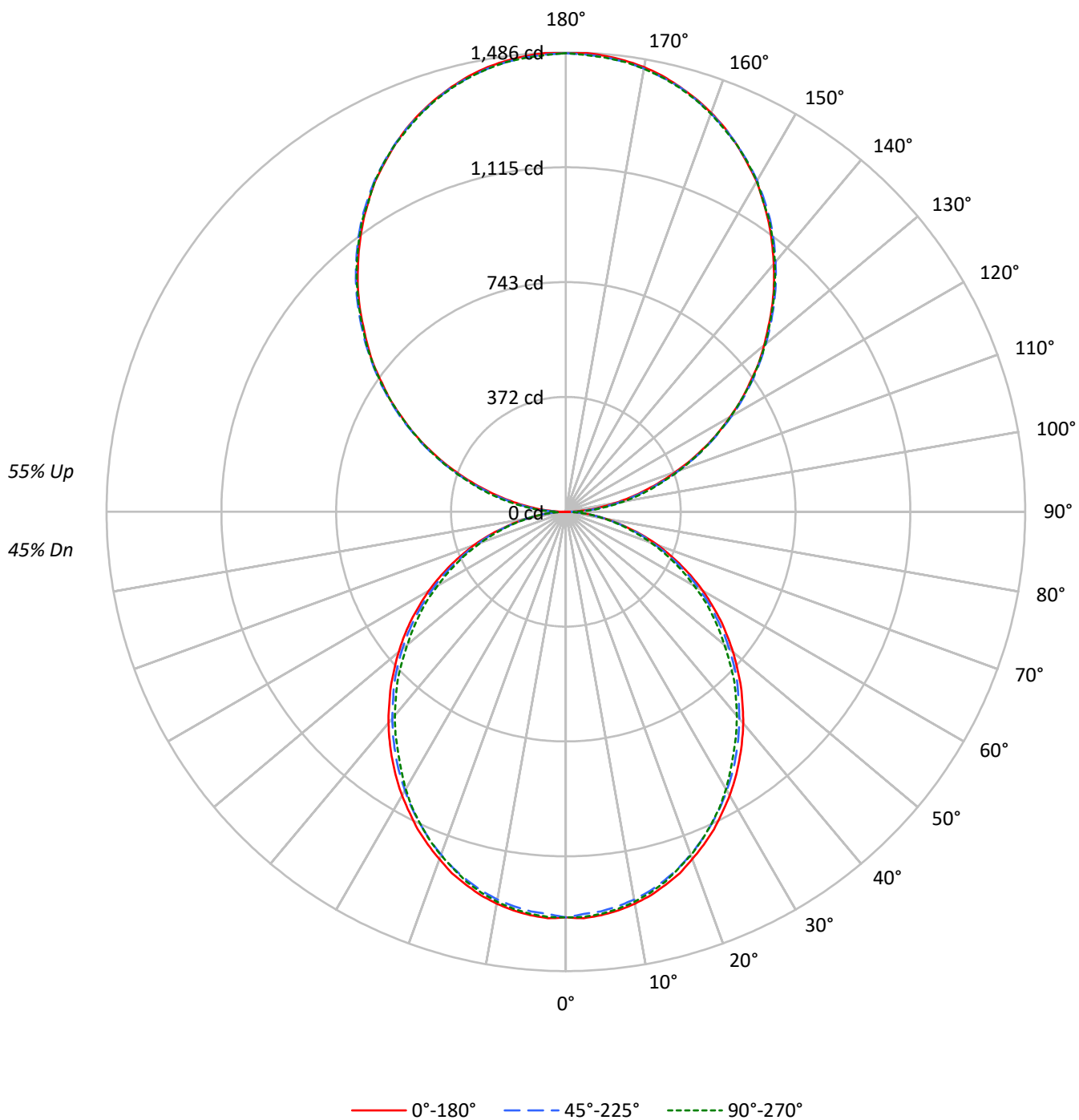
Lumens per Lamp: N/A
Luminaire Lumens: 7558.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70.9
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	97	92	88	85	88	85	81	78	71	68	66	58	56	54	46	45	44
2	88	81	74	69	80	74	69	64	62	58	55	51	48	45	40	38	37
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	36	33	31
4	73	63	55	49	67	58	51	45	48	43	39	40	36	33	32	29	27
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	29	26	23
6	62	50	42	36	57	46	39	34	39	33	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	29	24	20	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	1.6
10°-20°	349.7	4.6
20°-30°	516.3	6.8
30°-40°	602.4	8.0
40°-50°	605.0	8.0
50°-60°	531.1	7.0
60°-70°	395.6	5.2
70°-80°	225.9	3.0
80°-90°	67.5	0.9
90°-100°	98.7	1.3
100°-110°	293.1	3.9
110°-120°	497.1	6.6
120°-130°	654.4	8.7
130°-140°	733.3	9.7
140°-150°	718.7	9.5
150°-160°	603.7	8.0
160°-170°	401.3	5.3
170°-180°	140.4	1.9
0°-30°	989.8	13.1
0°-40°	1592.2	21.1
0°-60°	2728.3	36.1
0°-90°	3417.3	45.2
90°-120°	888.8	11.8
90°-150°	2995.2	39.6
90°-180°	4141.0	54.8
0°-180°	7558.0	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	10	18	24	28	9
95°	75	77	89	97	99	78
105°	263	269	276	283	286	281
115°	498	502	504	503	502	492
125°	726	733	734	732	731	651
135°	944	951	952	952	948	728
145°	1144	1149	1152	1152	1149	715
155°	1309	1309	1310	1315	1309	603
165°	1424	1421	1422	1427	1420	402
175°	1480	1476	1476	1482	1474	141
180°	1484	1484	1484	1484	1484	

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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°	1.2	10.4	18.5	24.2	27.7
92.5°	34.6	40.4	50.8	58.9	61.2
95°	75.0	77.4	88.9	97.0	99.3
97.5°	115.5	116.6	132.8	139.7	140.9
100°	161.6	161.6	176.7	187.0	189.4
102.5°	211.3	217.1	222.8	234.4	237.8
105°	263.2	269.0	275.9	282.9	286.3
107.5°	319.8	325.6	331.4	334.8	334.8
110°	378.7	384.5	387.9	391.4	390.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	438.7	441.0	445.7	446.8	444.5
115°	497.6	502.2	504.5	503.4	502.2
117.5°	557.7	558.8	561.1	562.3	557.7
120°	613.1	618.9	620.0	620.0	615.4
122.5°	673.1	674.3	677.7	676.6	673.1
125°	726.2	733.2	734.3	732.0	730.8
127.5°	785.1	788.6	789.7	788.6	786.3
130°	837.1	842.8	845.1	844.0	841.7
132.5°	889.0	899.4	898.3	897.1	893.6
135°	944.4	951.4	952.5	952.5	947.9
137.5°	996.4	1003.3	1005.6	1006.8	1001.0
140°	1046.0	1051.8	1055.3	1057.6	1051.8
142.5°	1095.7	1100.3	1104.9	1106.1	1100.3
145°	1144.2	1148.8	1152.3	1152.3	1148.8
147.5°	1189.2	1192.7	1195.0	1198.4	1189.2
150°	1234.2	1233.1	1237.7	1237.7	1235.4
152.5°	1271.2	1273.5	1274.7	1278.1	1273.5
155°	1309.3	1309.3	1310.4	1315.1	1309.3
157.5°	1343.9	1341.6	1342.8	1347.4	1339.3
160°	1373.9	1370.5	1371.6	1376.3	1370.5
162.5°	1400.5	1398.2	1398.2	1404.0	1397.0
165°	1423.6	1421.3	1422.4	1427.1	1420.1
167.5°	1444.4	1439.8	1439.8	1446.7	1439.8
170°	1460.5	1455.9	1455.9	1462.8	1454.8
172.5°	1472.1	1467.5	1467.5	1474.4	1467.5
175°	1480.2	1475.5	1475.5	1482.5	1474.4
177.5°	1485.9	1481.3	1480.2	1487.1	1479.0
180°	1483.6	1483.6	1483.6	1483.6	1483.6

(END OF REPORT)