

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: P1028277

Luminaire Tested: S125DIP-B850D1270UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028277
REPORT IS A COMBINATION OF REPORTS P1002534 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1270UB50-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

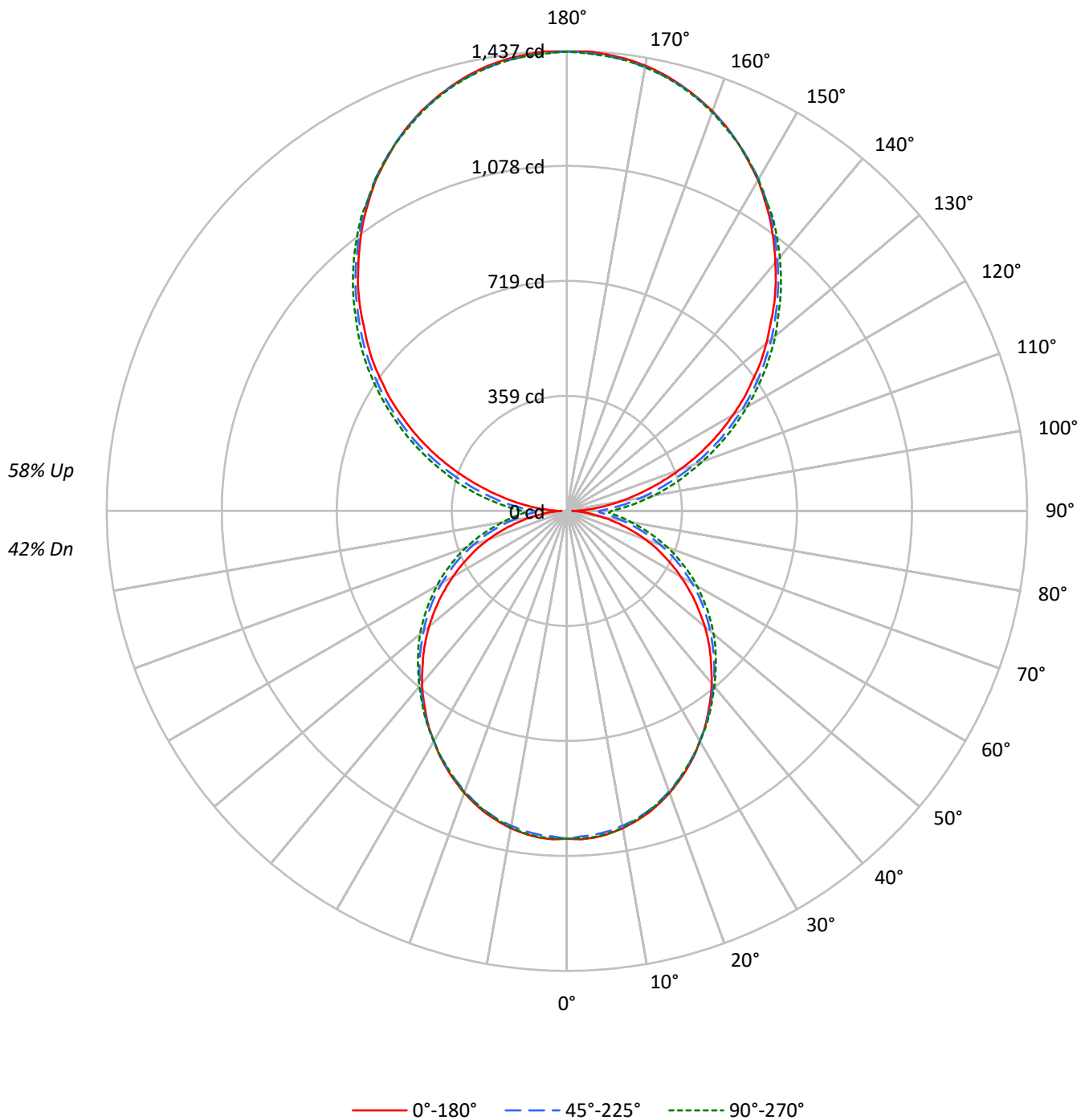
Lumens per Lamp: N/A
Luminaire Lumens: 7179.0 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1028277

CATALOG NUMBER: S125DIP-B850D1270UB50-4F0-XX-W2A-D1

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	95	91	87	83	87	83	79	76	68	65	63	54	53	51	42	41	40
2	86	79	73	67	79	72	67	62	59	55	52	47	45	42	36	34	33
3	79	69	62	56	71	63	57	51	52	47	43	42	38	35	32	30	28
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	28	26	24
5	66	54	46	40	60	50	42	37	41	36	31	33	29	26	26	23	21
6	61	48	40	34	55	44	37	32	37	31	27	30	26	23	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	40	32	26	47	36	29	25	30	25	21	25	21	18	19	16	14
9	48	36	29	23	44	33	27	22	28	23	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	20	26	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6560	6560	6560
5°	6571	6423	6438
10°	6522	6292	6274
15°	6443	6139	6072
20°	6335	5955	5870
25°	6208	5760	5627
30°	6055	5546	5406
35°	5911	5349	5202
40°	5765	5142	4997
45°	5599	4962	4812
50°	5442	4767	4645
55°	5251	4580	4452
60°	5043	4368	4253
65°	4825	4145	4029
70°	4575	3845	3797
75°	4182	3549	3513
80°	3665	3190	3199
85°	3156	2904	3034

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5599 cd/sqm

TEST NUMBER: P1028277

CATALOG NUMBER: S125DIP-B850D1270UB50-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.3
10°-20°	275.1	3.8
20°-30°	409.0	5.7
30°-40°	484.4	6.7
40°-50°	500.8	7.0
50°-60°	461.3	6.4
60°-70°	372.9	5.2
70°-80°	249.5	3.5
80°-90°	131.2	1.8
90°-100°	168.1	2.3
100°-110°	337.0	4.7
110°-120°	516.6	7.2
120°-130°	653.2	9.1
130°-140°	718.1	10.0
140°-150°	696.9	9.7
150°-160°	583.9	8.1
160°-170°	388.1	5.4
170°-180°	135.8	1.9
0°-30°	781.0	10.9
0°-40°	1265.4	17.6
0°-60°	2227.5	31.0
0°-90°	2981.2	41.5
90°-120°	1021.7	14.2
90°-150°	3089.9	43.0
90°-180°	4198.0	58.5
0°-180°	7179.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1024	1024	1024	1024	1024	
5°	1024	1022	1015	1023	1022	97
15°	978	979	972	978	974	275
25°	888	891	885	889	884	409
35°	769	776	773	776	776	481
45°	633	644	650	656	658	489
55°	487	503	519	530	534	435
65°	335	358	382	398	402	333
75°	185	211	243	263	268	196
85°	55	88	124	146	154	58
90°	17	58	100	129	139	16
95°	86	114	159	189	198	86
105°	264	285	322	349	359	281
115°	487	499	527	544	549	482
125°	706	712	733	747	751	633
135°	915	921	929	942	943	706
145°	1108	1111	1114	1119	1120	692
155°	1266	1266	1267	1272	1266	583
165°	1377	1375	1376	1380	1374	388
175°	1432	1427	1427	1434	1426	136
180°	1435	1435	1435	1435	1435	

TEST NUMBER: P1028277

CATALOG NUMBER: S125DIP-B850D1270UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1023.9	1023.9	1023.9	1023.9	1023.9
2.5°	1027.0	1024.9	1017.9	1024.9	1023.9
5°	1023.9	1021.9	1014.9	1022.9	1021.9
7.5°	1016.9	1015.9	1008.9	1015.9	1014.9
10°	1006.9	1006.9	998.8	1005.9	1004.9
12.5°	992.8	993.8	987.8	992.8	989.8
15°	977.8	978.8	971.7	977.8	973.8
17.5°	958.7	960.7	953.7	958.7	955.7
20°	937.6	939.6	932.6	935.6	935.6
22.5°	913.5	917.5	909.5	913.5	910.5
25°	888.4	891.4	885.4	889.4	884.4
27.5°	861.3	865.3	858.3	861.3	859.3
30°	830.2	836.2	830.2	832.2	831.2
32.5°	802.1	807.1	803.1	805.1	804.1
35°	769.0	776.0	773.0	776.0	776.0
37.5°	736.8	742.9	741.9	745.9	744.9
40°	703.7	711.7	710.7	714.8	716.8
42.5°	667.6	678.6	681.6	686.6	686.6
45°	633.4	644.5	649.5	656.5	657.5
47.5°	598.3	608.3	616.4	626.4	628.4
50°	562.2	573.2	584.3	595.3	598.3
52.5°	524.0	538.1	552.1	564.2	566.2
55°	486.9	502.9	519.0	530.0	534.1
57.5°	448.7	467.8	485.9	497.9	500.9
60°	410.6	430.7	450.7	465.8	468.8
62.5°	373.4	393.5	415.6	432.7	436.7
65°	335.3	358.4	382.5	397.5	401.5
67.5°	300.2	322.2	346.3	364.4	369.4
70°	261.0	284.1	310.2	329.3	335.3
72.5°	222.9	247.0	276.1	297.1	301.2
75°	184.7	210.8	242.9	263.0	268.0
77.5°	147.6	177.7	207.8	229.9	233.9
80°	113.4	143.6	177.7	199.8	203.8
82.5°	82.3	114.4	149.6	170.7	178.7
85°	55.2	88.3	123.5	145.6	153.6
87.5°	35.1	67.3	101.4	124.5	131.5
90°	17.2	58.3	100.2	128.9	139.2
92.5°	47.6	82.3	127.4	157.4	166.6
95°	85.7	114.0	159.3	189.2	198.4
97.5°	123.7	148.9	197.7	225.4	233.6
100°	167.3	188.4	235.1	266.2	274.5
102.5°	214.4	239.0	275.7	307.0	316.3
105°	263.6	285.3	322.1	348.9	359.2
107.5°	317.3	337.0	371.7	395.1	401.1
110°	373.3	391.0	422.4	444.9	450.7

TEST NUMBER: P1028277

CATALOG NUMBER: S125DIP-B850D1270UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	431.3	442.7	474.2	493.4	498.2
115°	487.3	498.9	527.2	544.1	549.0
117.5°	544.4	550.5	577.8	596.0	598.6
120°	598.0	606.5	630.8	647.9	649.4
122.5°	655.0	657.1	682.6	697.6	700.2
125°	706.4	712.1	733.3	747.2	751.1
127.5°	762.3	764.7	782.9	796.8	800.7
130°	812.6	817.2	833.5	846.4	849.2
132.5°	861.8	871.9	880.8	893.8	894.4
135°	915.4	921.1	929.3	942.4	942.9
137.5°	965.7	971.4	977.6	990.8	989.3
140°	1012.7	1018.3	1022.6	1036.0	1034.4
142.5°	1060.7	1064.2	1068.7	1078.8	1077.3
145°	1107.6	1111.1	1114.4	1119.4	1120.1
147.5°	1150.2	1153.5	1155.8	1161.1	1154.2
150°	1193.7	1192.6	1197.1	1197.1	1195.8
152.5°	1229.5	1231.7	1232.8	1236.2	1231.7
155°	1266.3	1266.3	1267.4	1271.9	1266.3
157.5°	1299.8	1297.6	1298.7	1303.2	1295.3
160°	1328.8	1325.5	1326.6	1331.1	1325.5
162.5°	1354.5	1352.3	1352.3	1357.9	1351.2
165°	1376.9	1374.6	1375.7	1380.2	1373.5
167.5°	1397.0	1392.5	1392.5	1399.2	1392.5
170°	1412.6	1408.1	1408.1	1414.8	1407.0
172.5°	1423.8	1419.3	1419.3	1426.0	1419.3
175°	1431.6	1427.1	1427.1	1433.8	1426.0
177.5°	1437.2	1432.7	1431.6	1438.3	1430.5
180°	1434.9	1434.9	1434.9	1434.9	1434.9

(END OF REPORT)