

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: P1026988

Luminaire Tested: S125DIP-B850D1090UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026988
REPORT IS A COMBINATION OF REPORTS P1002437 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-D_5000K
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

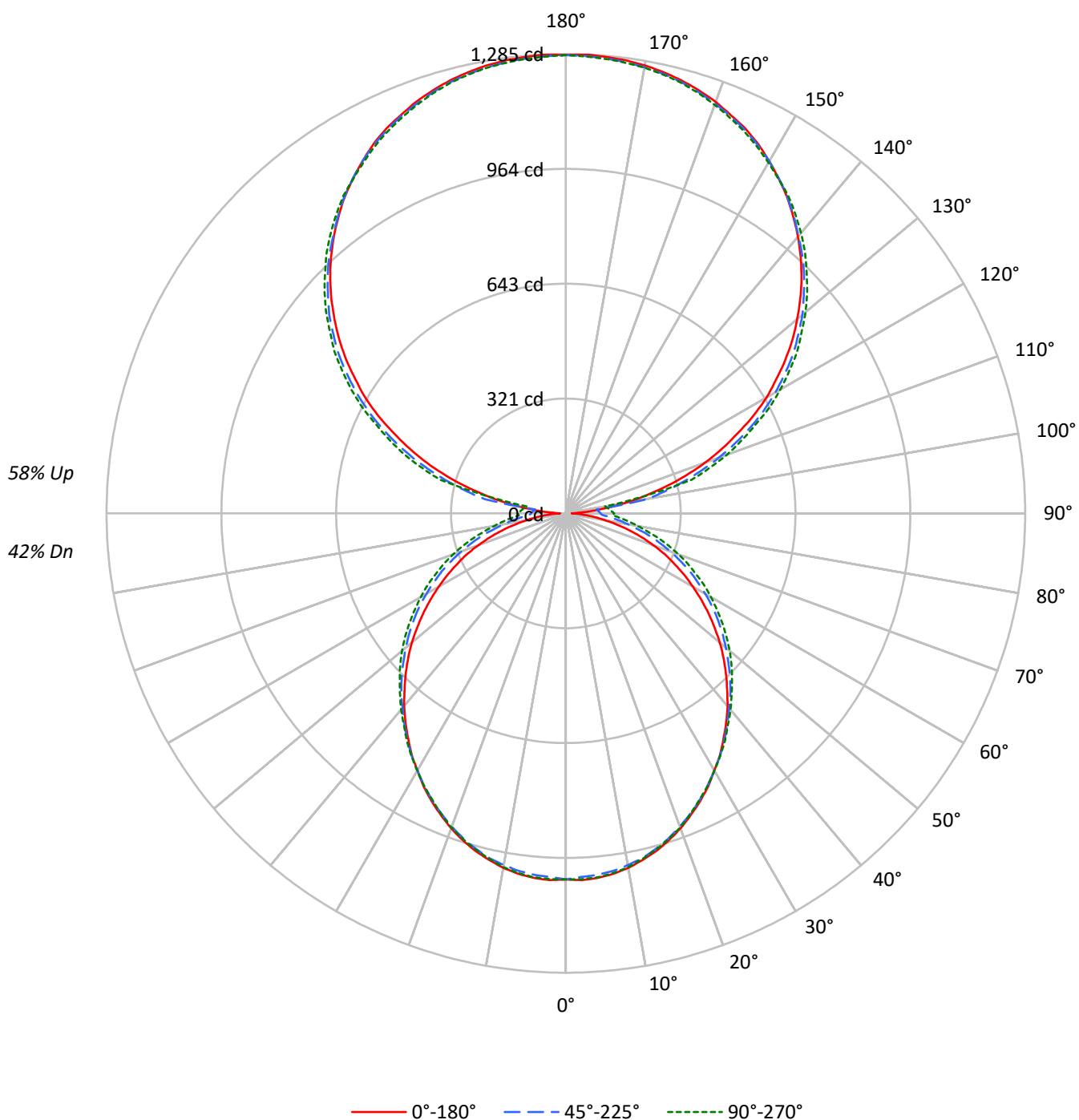
Lumens per Lamp: N/A
Luminaire Lumens: 7112.1 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49
1	95	91	87	83	87	83	79	76	68	66	63	55	53	51	42	41	40
2	87	79	73	67	79	72	67	62	59	55	52	48	45	42	37	35	33
3	79	69	62	56	71	63	57	52	52	47	43	42	38	35	32	30	28
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	29	26	24
5	66	54	46	40	60	50	43	37	41	36	32	33	29	26	26	23	21
6	61	49	40	35	55	45	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	27	47	36	30	25	30	25	21	25	21	18	19	17	14
9	48	36	29	24	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.4
10°-20°	275.1	3.9
20°-30°	409.0	5.8
30°-40°	484.4	6.8
40°-50°	500.8	7.0
50°-60°	461.3	6.5
60°-70°	372.9	5.2
70°-80°	249.5	3.5
80°-90°	130.9	1.8
90°-100°	116.2	1.6
100°-110°	342.9	4.8
110°-120°	556.9	7.8
120°-130°	689.1	9.7
130°-140°	728.2	10.2
140°-150°	676.9	9.5
150°-160°	546.1	7.7
160°-170°	353.2	5.0
170°-180°	121.8	1.7
0°-30°	781.0	11.0
0°-40°	1265.4	17.8
0°-60°	2227.5	31.3
0°-90°	2980.9	41.9
90°-120°	1016.0	14.3
90°-150°	3110.1	43.7
90°-180°	4131.0	58.1
0°-180°	7112.1	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	57	98	125	135	14
95°	67	90	88	115	122	77
105°	288	308	338	358	365	306
115°	531	542	570	584	584	526
125°	750	756	776	788	790	670
135°	932	937	942	953	953	719
145°	1080	1080	1080	1086	1085	675
155°	1188	1182	1184	1187	1179	547
165°	1254	1248	1249	1254	1247	354
175°	1282	1276	1277	1285	1276	122
180°	1282	1282	1282	1282	1282	

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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°	17.1	56.8	97.5	125.4	135.2
92.5°	32.2	52.7	93.5	120.4	128.3
95°	67.3	90.5	88.5	115.4	122.4
97.5°	113.7	143.5	86.4	109.3	117.4
100°	169.7	193.7	229.6	109.1	111.4
102.5°	226.7	249.6	282.6	304.6	230.8
105°	288.4	308.3	338.4	358.5	364.6
107.5°	352.0	366.1	397.1	418.2	420.4
110°	413.7	425.8	455.9	472.1	480.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	472.7	484.6	512.7	526.9	532.1
115°	530.6	542.4	569.5	583.7	584.0
117.5°	591.4	596.4	625.3	636.7	641.8
120°	648.4	650.4	676.4	691.6	692.8
122.5°	697.8	703.5	726.6	740.8	741.1
125°	750.0	755.7	775.8	788.1	790.2
127.5°	799.4	803.1	819.3	832.4	830.9
130°	845.0	848.8	863.8	875.0	875.2
132.5°	889.6	895.3	902.5	916.6	915.8
135°	932.4	937.1	942.2	953.4	952.7
137.5°	972.3	977.0	979.1	991.2	990.5
140°	1010.3	1012.2	1012.2	1025.2	1023.5
142.5°	1045.4	1045.4	1047.3	1056.3	1054.7
145°	1079.6	1080.5	1080.5	1086.5	1084.8
147.5°	1109.1	1109.1	1110.0	1113.0	1108.3
150°	1137.6	1135.7	1137.6	1139.5	1132.9
152.5°	1165.1	1160.4	1162.3	1164.2	1157.5
155°	1187.9	1182.2	1184.1	1187.0	1179.4
157.5°	1206.0	1203.1	1203.1	1206.0	1198.4
160°	1225.0	1219.3	1220.2	1224.1	1216.4
162.5°	1240.2	1234.5	1235.5	1241.2	1232.6
165°	1253.5	1247.8	1248.8	1254.5	1246.9
167.5°	1264.0	1258.3	1259.2	1265.9	1257.3
170°	1272.5	1265.9	1266.8	1274.4	1265.9
172.5°	1278.2	1271.6	1273.5	1280.1	1271.6
175°	1282.0	1276.3	1277.3	1284.9	1276.3
177.5°	1284.9	1279.2	1280.1	1286.8	1279.2
180°	1282.0	1282.0	1282.0	1282.0	1282.0

(END OF REPORT)