

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: P1028232

Luminaire Tested: S125DIP-B850D1090UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028232
REPORT IS A COMBINATION OF REPORTS P1002474 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D1090UB50-4F0-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

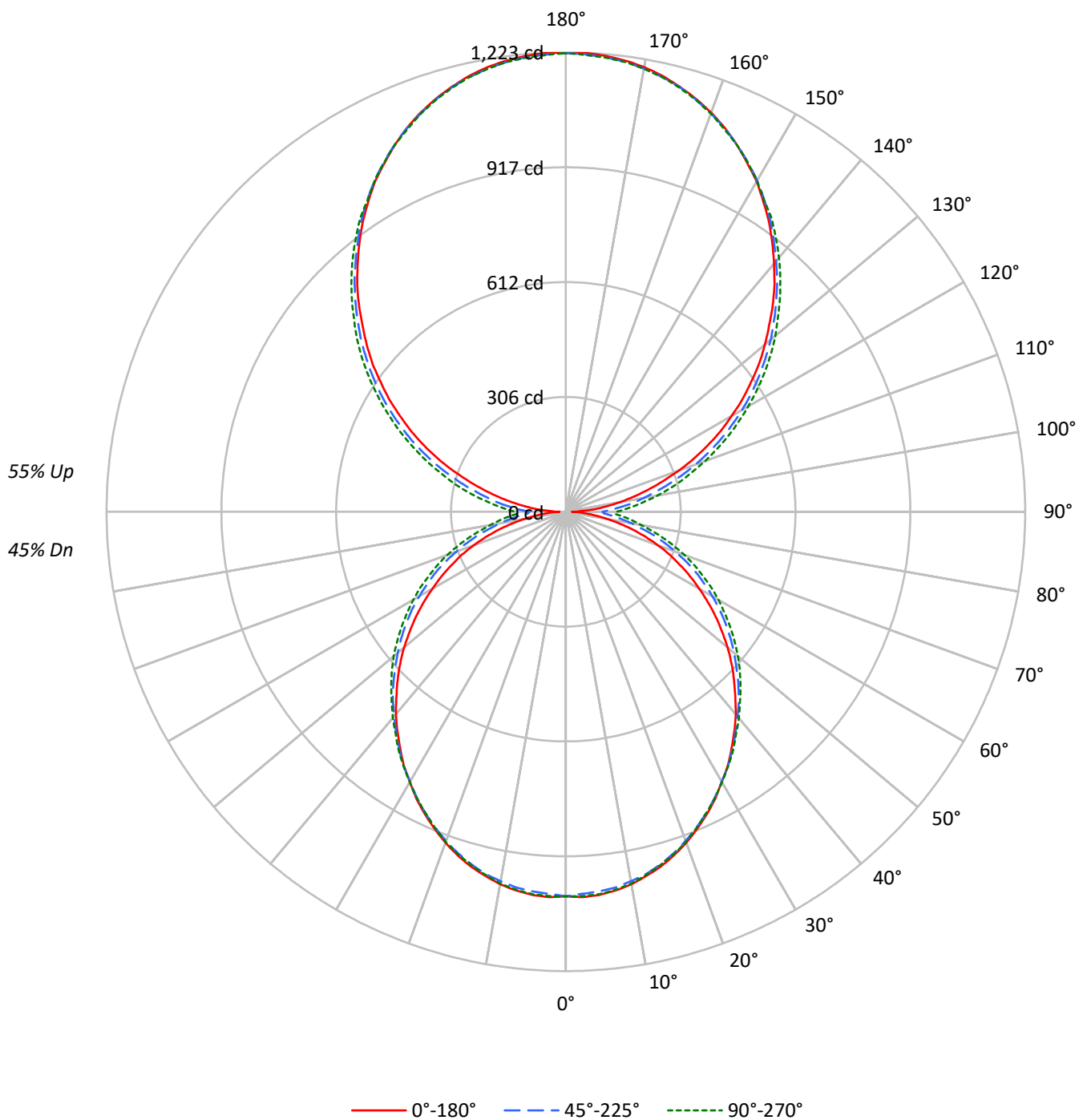
Lumens per Lamp: N/A
Luminaire Lumens: 6582.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1028232

CATALOG NUMBER: S125DIP-B850D1090UB50-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1028232

CATALOG NUMBER: S125DIP-B850D1090UB50-4F0-XX-W2A-D1

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	96	91	87	84	88	84	80	77	70	67	65	57	55	53	45	44	42
2	87	79	73	68	80	73	67	63	61	57	53	49	46	44	39	37	35
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	32	30
4	72	61	53	47	66	57	49	44	47	42	38	39	35	31	31	28	25
5	66	55	46	40	61	50	43	38	42	37	32	35	30	27	27	24	22
6	61	49	41	35	56	45	38	33	38	32	28	31	27	24	25	22	19
7	56	44	36	30	52	41	34	28	34	29	25	28	24	21	23	19	17
8	52	40	32	27	48	37	30	25	31	26	22	26	22	18	21	18	15
9	49	36	29	24	45	34	27	22	29	23	19	24	20	17	19	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	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: P1028232

CATALOG NUMBER: S125DIP-B850D1090UB50-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.5
10°-20°	275.1	4.2
20°-30°	409.0	6.2
30°-40°	484.4	7.4
40°-50°	500.8	7.6
50°-60°	461.3	7.0
60°-70°	372.9	5.7
70°-80°	249.5	3.8
80°-90°	130.9	2.0
90°-100°	153.9	2.3
100°-110°	294.8	4.5
110°-120°	445.0	6.8
120°-130°	558.9	8.5
130°-140°	612.4	9.3
140°-150°	593.3	9.0
150°-160°	496.9	7.5
160°-170°	330.3	5.0
170°-180°	115.6	1.8
0°-30°	781.0	11.9
0°-40°	1265.4	19.2
0°-60°	2227.5	33.8
0°-90°	2980.9	45.3
90°-120°	893.6	13.6
90°-150°	2658.3	40.4
90°-180°	3601.0	54.7
0°-180°	6582.0	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	57	98	125	135	15
95°	75	103	146	175	184	75
105°	226	246	282	308	318	241
115°	416	426	454	472	477	411
125°	602	606	628	642	646	539
135°	779	784	792	805	806	601
145°	943	946	948	953	955	589
155°	1078	1078	1079	1082	1078	496
165°	1172	1170	1171	1175	1169	331
175°	1218	1214	1214	1220	1214	116
180°	1221	1221	1221	1221	1221	

TEST NUMBER: P1028232

CATALOG NUMBER: S125DIP-B850D1090UB50-4F0-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°	17.1	56.8	97.5	125.4	135.2
92.5°	42.6	76.5	120.1	148.9	157.8
95°	74.9	102.9	146.5	175.2	184.1
97.5°	107.0	132.1	178.6	205.3	213.3
100°	144.0	165.1	209.6	239.2	247.2
102.5°	183.9	207.8	243.6	273.2	282.1
105°	225.7	246.5	282.3	308.1	318.0
107.5°	271.2	290.1	323.9	346.9	352.9
110°	318.7	335.6	366.5	388.5	394.5

TEST NUMBER: P1028232

CATALOG NUMBER: S125DIP-B850D1090UB50-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	368.1	379.1	410.0	429.0	434.2
115°	415.6	426.5	454.5	471.5	476.6
117.5°	464.0	469.9	496.9	515.0	518.2
120°	509.6	517.4	541.4	558.5	560.7
122.5°	558.0	560.0	584.9	600.1	603.2
125°	601.7	606.4	627.5	641.7	645.7
127.5°	649.2	651.1	669.1	683.2	687.4
130°	692.0	695.7	711.7	724.8	727.9
132.5°	733.7	742.3	751.3	764.5	765.6
135°	779.3	784.0	792.0	805.1	806.3
137.5°	822.1	826.8	832.7	845.8	845.0
140°	862.0	866.7	870.6	883.6	882.8
142.5°	902.8	905.6	909.4	919.4	918.7
145°	942.7	945.6	948.4	953.4	954.6
147.5°	978.8	981.7	983.6	988.4	982.8
150°	1015.9	1014.9	1018.7	1018.7	1017.8
152.5°	1046.3	1048.2	1049.1	1052.0	1048.2
155°	1077.6	1077.6	1078.6	1082.4	1077.6
157.5°	1106.2	1104.3	1105.2	1109.0	1102.4
160°	1130.9	1128.0	1129.0	1132.8	1128.0
162.5°	1152.7	1150.8	1150.8	1155.6	1149.9
165°	1171.7	1169.8	1170.8	1174.6	1168.9
167.5°	1188.8	1185.0	1185.0	1190.7	1185.0
170°	1202.1	1198.3	1198.3	1204.0	1197.4
172.5°	1211.6	1207.8	1207.8	1213.5	1207.8
175°	1218.3	1214.5	1214.5	1220.2	1213.5
177.5°	1223.0	1219.2	1218.3	1224.0	1217.3
180°	1221.1	1221.1	1221.1	1221.1	1221.1

(END OF REPORT)