

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: P1028405

Luminaire Tested: S125DIP-B850D850UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028405
REPORT IS A COMBINATION OF REPORTS P1002707 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D850UB40-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

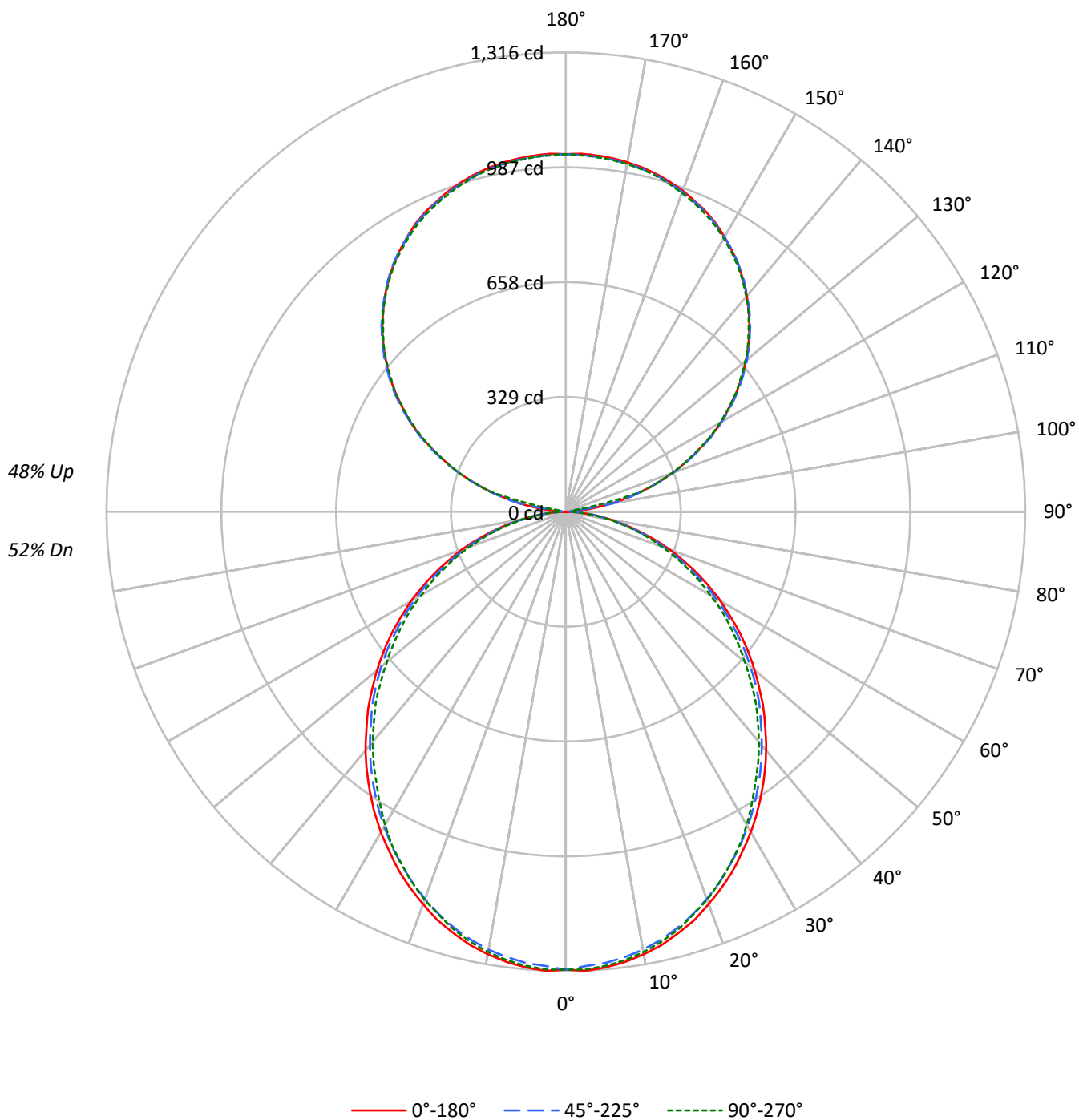
Lumens per Lamp: N/A
Luminaire Lumens: 6564.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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: P1028405

CATALOG NUMBER: S125DIP-B850D850UB40-4F0-XX-W2A-F

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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58
1	98	94	90	86	91	87	84	80	74	72	69	62	60	59	51	50	49
2	89	82	76	70	82	76	71	66	65	61	57	55	52	49	45	43	41
3	82	72	65	59	75	67	60	55	57	52	48	48	45	41	40	37	35
4	75	64	56	50	69	59	52	47	51	45	41	43	39	35	36	33	30
5	68	57	49	43	63	53	46	40	45	40	35	39	34	31	32	29	26
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	24	21	18
9	50	38	31	25	47	36	29	24	31	25	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	19	25	20	17	21	18	15

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

TEST NUMBER: P1028405

CATALOG NUMBER: S125DIP-B850D850UB40-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	1.9
10°-20°	349.7	5.3
20°-30°	516.3	7.9
30°-40°	602.4	9.2
40°-50°	605.0	9.2
50°-60°	531.1	8.1
60°-70°	395.6	6.0
70°-80°	225.9	3.4
80°-90°	66.7	1.0
90°-100°	34.8	0.5
100°-110°	231.2	3.5
110°-120°	416.4	6.3
120°-130°	534.5	8.1
130°-140°	574.9	8.8
140°-150°	539.6	8.2
150°-160°	436.4	6.6
160°-170°	282.3	4.3
170°-180°	97.3	1.5
0°-30°	989.8	15.1
0°-40°	1592.2	24.3
0°-60°	2728.3	41.6
0°-90°	3416.5	52.0
90°-120°	682.5	10.4
90°-150°	2331.4	35.5
90°-180°	3147.0	47.9
0°-180°	6564.0	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	7	12	16	18	6
95°	43	41	12	16	16	53
105°	223	226	226	226	226	237
115°	419	423	424	421	416	416
125°	596	602	602	598	596	533
135°	744	748	747	745	741	573
145°	862	864	864	864	860	539
155°	949	945	946	949	943	437
165°	1002	997	998	1003	996	283
175°	1025	1020	1021	1027	1020	98
180°	1025	1025	1025	1025	1025	

TEST NUMBER: P1028405

CATALOG NUMBER: S125DIP-B850D850UB40-4F0-XX-W2A-F

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°	0.8	6.8	12.2	16.0	18.2
92.5°	14.4	7.6	12.2	16.0	16.7
95°	43.3	41.0	12.2	16.0	16.0
97.5°	81.3	85.8	13.7	15.2	16.0
100°	126.8	129.1	132.2	19.0	16.0
102.5°	173.2	176.2	177.7	179.3	115.5
105°	223.3	226.3	226.3	226.3	225.6
107.5°	275.0	275.0	276.5	277.2	274.2
110°	325.1	325.1	326.6	324.3	325.1

TEST NUMBER: P1028405

CATALOG NUMBER: S125DIP-B850D850UB40-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	372.2	374.5	375.2	372.2	370.7
115°	419.3	423.1	423.8	420.8	416.2
117.5°	468.6	468.6	471.7	467.1	465.6
120°	514.2	513.5	515.7	514.2	510.4
122.5°	554.5	558.3	559.0	557.5	553.0
125°	596.3	601.6	601.6	598.5	596.3
127.5°	636.5	640.3	639.5	638.0	632.0
130°	673.0	676.8	677.5	675.2	671.4
132.5°	709.4	714.0	711.7	711.7	707.9
135°	743.6	748.2	746.6	745.1	740.6
137.5°	775.5	780.1	778.5	778.5	774.7
140°	806.6	808.2	807.4	808.9	804.4
142.5°	834.8	835.5	837.0	837.0	832.5
145°	862.1	863.6	863.6	864.4	859.8
147.5°	886.4	886.4	887.2	887.9	882.6
150°	909.2	907.7	909.2	910.7	904.6
152.5°	931.2	927.4	928.9	930.5	925.1
155°	949.4	944.9	946.4	948.7	942.6
157.5°	963.9	961.6	961.6	963.9	957.8
160°	979.1	974.5	975.3	978.3	972.2
162.5°	991.2	986.7	987.4	992.0	985.1
165°	1001.9	997.3	998.1	1002.6	996.5
167.5°	1010.2	1005.7	1006.4	1011.7	1004.9
170°	1017.0	1011.7	1012.5	1018.6	1011.7
172.5°	1021.6	1016.3	1017.8	1023.1	1016.3
175°	1024.6	1020.1	1020.8	1026.9	1020.1
177.5°	1026.9	1022.4	1023.1	1028.4	1022.4
180°	1024.6	1024.6	1024.6	1024.6	1024.6

(END OF REPORT)