

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: P1028353

Luminaire Tested: S125DIP-B850D610UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028353
REPORT IS A COMBINATION OF REPORTS P1002640 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B850D610UB35-4F0-XX-W2A-F4
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

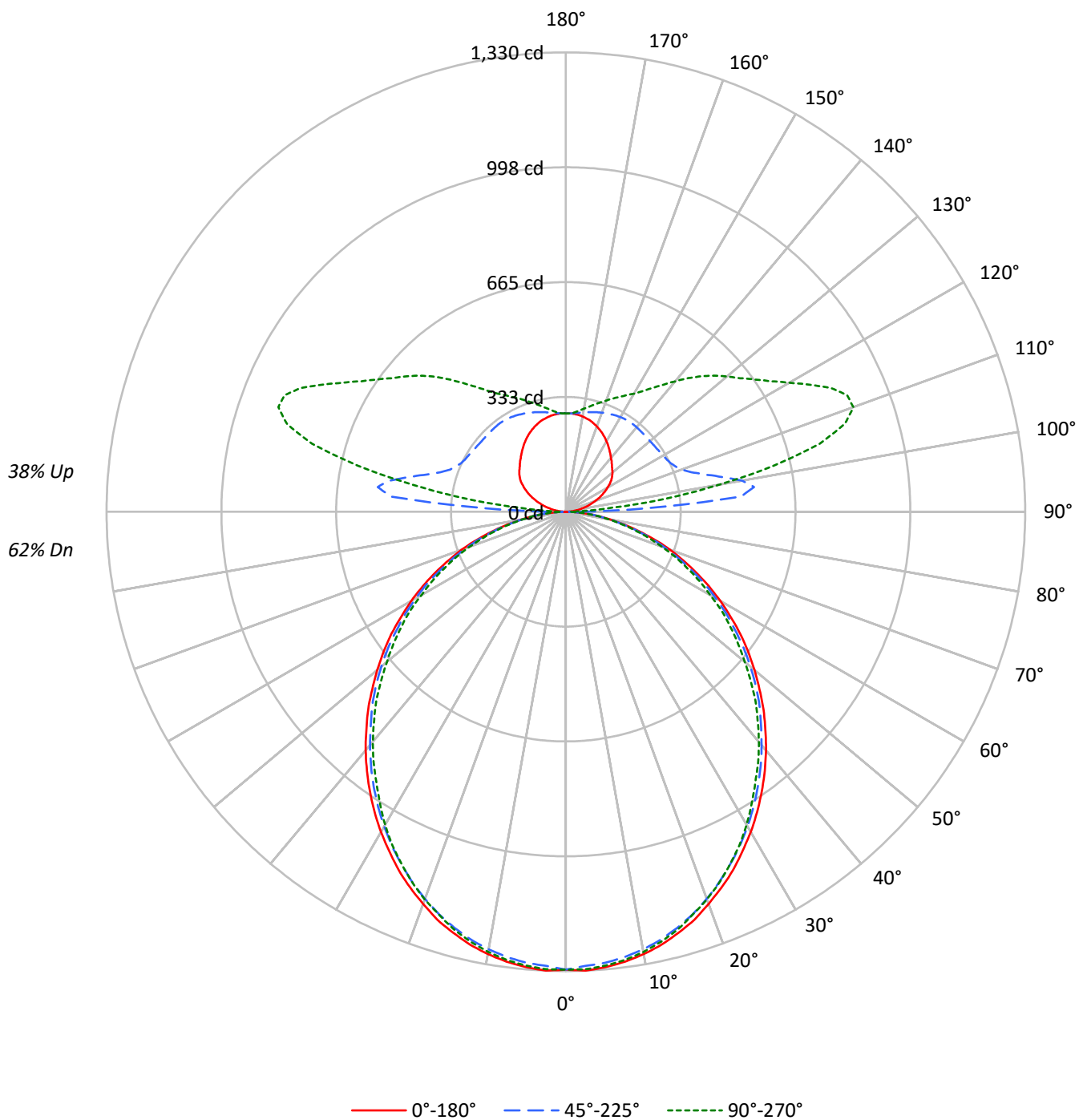
Lumens per Lamp: N/A
Luminaire Lumens: 5594.4 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 51.3
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: P1028353

CATALOG NUMBER: S125DIP-B850D610UB35-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1028353

CATALOG NUMBER: S125DIP-B850D610UB35-4F0-XX-W2A-F4

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67
1	100	96	92	88	94	90	86	83	79	76	74	68	67	65	59	58	56
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	52	50	47
3	83	74	66	60	78	69	62	57	61	56	51	53	49	46	46	43	40
4	76	65	57	51	71	61	54	48	54	48	44	47	43	39	41	38	35
5	70	58	50	44	65	55	47	42	48	42	38	43	38	34	37	33	30
6	65	52	44	38	60	49	42	36	44	38	33	38	34	30	34	30	27
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8493	8493	8493
5°	8493	8295	8311
10°	8423	8105	8080
15°	8313	7878	7807
20°	8163	7614	7494
25°	8002	7327	7160
30°	7809	7027	6807
35°	7602	6713	6412
40°	7388	6380	6060
45°	7157	6057	5687
50°	6902	5690	5252
55°	6650	5285	4852
60°	6350	4858	4386
65°	5990	4364	3905
70°	5625	3796	3349
75°	5011	3125	2708
80°	4269	2334	1992
85°	3299	1380	1098

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7157 cd/sqm

TEST NUMBER: P1028353

CATALOG NUMBER: S125DIP-B850D610UB35-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	2.2
10°-20°	353.3	6.3
20°-30°	521.6	9.3
30°-40°	608.6	10.9
40°-50°	611.2	10.9
50°-60°	536.5	9.6
60°-70°	399.6	7.1
70°-80°	228.2	4.1
80°-90°	67.0	1.2
90°-100°	214.4	3.8
100°-110°	445.4	8.0
110°-120°	416.0	7.4
120°-130°	336.7	6.0
130°-140°	270.5	4.8
140°-150°	204.2	3.6
150°-160°	143.7	2.6
160°-170°	84.7	1.5
170°-180°	27.5	0.5
0°-30°	1000.0	17.9
0°-40°	1608.5	28.8
0°-60°	2756.3	49.3
0°-90°	3451.2	61.7
90°-120°	1075.9	19.2
90°-150°	1887.2	33.7
90°-180°	2143.0	38.3
0°-180°	5594.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1326	1326	1326	1326	1326	
5°	1323	1321	1311	1320	1319	126
15°	1262	1258	1247	1252	1252	356
25°	1145	1140	1126	1128	1125	527
35°	989	985	970	965	956	619
45°	810	805	793	780	777	624
55°	617	614	599	589	582	550
65°	416	414	403	393	389	413
75°	221	219	214	211	207	236
85°	58	59	59	58	56	63
90°	1	5	9	12	13	5
95°	19	56	509	231	135	20
105°	65	91	416	820	761	68
115°	116	140	334	720	847	114
125°	161	188	320	573	668	143
135°	188	226	318	480	555	146
145°	219	251	319	398	438	137
155°	250	269	311	352	367	115
165°	273	281	298	317	322	77
175°	284	284	286	290	289	27
180°	285	285	285	285	285	

TEST NUMBER: P1028353

CATALOG NUMBER: S125DIP-B850D610UB35-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.5	1325.5	1325.5	1325.5	1325.5
2.5°	1329.7	1326.6	1316.1	1326.6	1325.5
5°	1323.4	1321.3	1310.8	1320.3	1319.2
7.5°	1314.0	1311.9	1300.4	1309.8	1308.7
10°	1300.4	1298.3	1286.7	1295.1	1294.1
12.5°	1283.6	1279.4	1268.9	1275.2	1275.2
15°	1261.6	1258.4	1246.9	1252.1	1252.1
17.5°	1238.5	1233.2	1221.7	1228.0	1222.7
20°	1208.1	1206.0	1192.3	1199.7	1194.4
22.5°	1177.7	1173.5	1160.9	1165.1	1161.9
25°	1145.1	1139.9	1126.3	1128.4	1125.2
27.5°	1107.4	1104.2	1090.6	1091.7	1088.5
30°	1070.7	1067.5	1051.8	1049.7	1046.6
32.5°	1030.8	1025.6	1012.0	1007.8	1001.5
35°	988.9	984.7	970.0	964.8	956.4
37.5°	945.9	940.7	927.0	919.7	914.4
40°	901.9	896.6	881.9	872.5	869.3
42.5°	854.7	850.5	835.8	827.4	822.2
45°	809.6	805.4	792.8	780.2	777.1
47.5°	760.3	761.3	745.6	733.0	725.7
50°	713.1	709.9	697.4	683.7	676.4
52.5°	664.9	662.8	649.1	637.6	629.2
55°	616.6	613.5	598.8	589.4	582.0
57.5°	565.2	564.2	551.6	539.0	535.9
60°	517.0	512.8	501.3	490.8	483.4
62.5°	466.7	463.5	454.1	442.5	437.3
65°	416.3	414.2	402.7	393.3	389.1
67.5°	367.0	362.8	354.5	346.1	344.0
70°	320.9	315.6	306.2	299.9	295.7
72.5°	270.6	267.4	262.2	254.8	250.6
75°	221.3	219.2	213.9	210.8	206.6
77.5°	175.1	174.1	170.9	168.8	165.7
80°	132.1	132.1	130.0	129.0	126.9
82.5°	94.4	92.3	92.3	90.2	90.2
85°	57.7	58.7	58.7	57.7	55.6
87.5°	28.3	28.3	27.3	27.3	25.2
90°	0.6	5.2	9.2	12.0	13.2
92.5°	8.6	47.0	229.1	61.2	42.5
95°	18.9	56.0	508.7	230.8	134.9
97.5°	29.3	60.6	549.4	416.8	295.7
100°	40.2	69.5	518.4	589.0	447.8
102.5°	52.2	79.5	463.9	734.9	617.8
105°	64.9	90.7	416.2	819.6	760.7
107.5°	76.9	102.5	380.6	843.4	846.8
110°	90.1	114.8	357.1	820.7	885.9



TEST NUMBER: P1028353

CATALOG NUMBER: S125DIP-B850D610UB35-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	103.3	127.2	343.3	773.4	881.3
115°	116.0	139.8	334.1	720.2	847.4
117.5°	127.5	152.7	329.0	672.0	796.3
120°	138.9	165.0	325.5	631.6	746.9
122.5°	151.0	177.1	322.7	599.1	703.3
125°	160.8	188.3	320.4	573.0	667.7
127.5°	168.8	199.2	319.2	550.6	635.0
130°	176.3	209.6	318.1	527.9	609.1
132.5°	182.0	218.8	318.1	503.5	583.3
135°	188.3	226.4	318.1	480.2	554.6
137.5°	196.4	233.6	318.6	455.8	524.7
140°	203.2	239.6	319.2	433.4	493.2
142.5°	211.3	245.4	319.8	414.2	463.9
145°	219.3	251.2	319.2	397.6	437.5
147.5°	227.9	256.4	318.1	383.2	413.9
150°	235.4	261.0	316.3	371.5	395.0
152.5°	243.4	265.5	314.0	361.4	380.1
155°	250.3	269.2	311.2	351.6	366.9
157.5°	256.6	273.0	308.3	342.4	354.8
160°	262.9	275.9	305.4	333.3	342.8
162.5°	268.1	278.7	302.0	325.0	331.8
165°	273.3	280.8	298.5	316.6	321.5
167.5°	276.7	281.8	295.1	308.8	311.7
170°	280.2	283.4	292.2	301.4	303.1
172.5°	282.5	283.9	288.8	295.4	295.1
175°	284.2	284.2	286.5	289.9	288.8
177.5°	285.3	284.2	284.8	286.5	284.8
180°	284.8	284.8	284.8	284.8	284.8

(END OF REPORT)