

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: P1027982

Luminaire Tested: S125DIP-B610D1090UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027982
REPORT IS A COMBINATION OF REPORTS P1002146 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D1090UB30-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

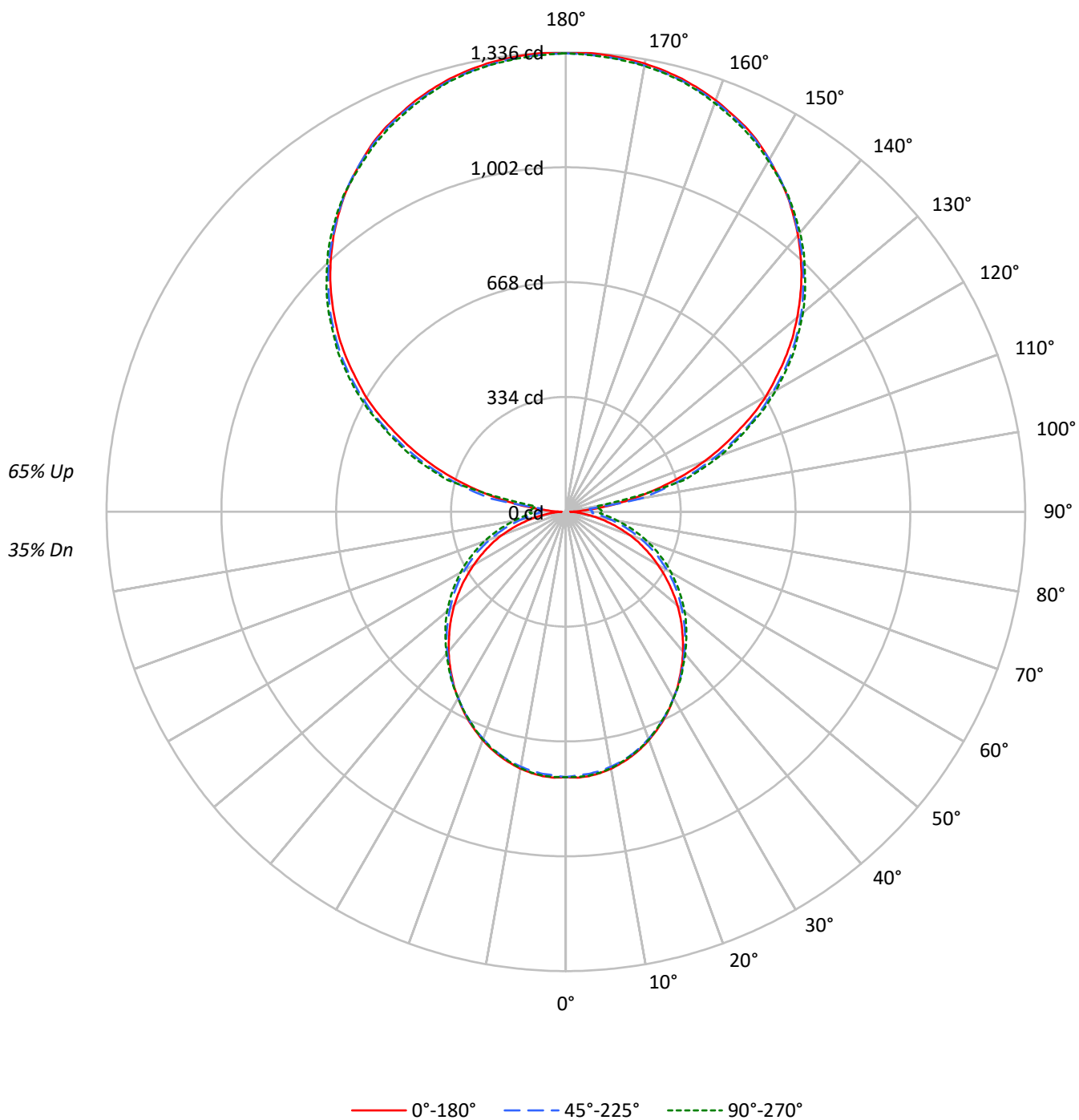
Lumens per Lamp: N/A
Luminaire Lumens: 6489.0 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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: P1027982

CATALOG NUMBER: S125DIP-B610D1090UB30-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1027982

CATALOG NUMBER: S125DIP-B610D1090UB30-4F0-XX-W2A-D

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	103	103	103	103	93	93	93	93	75	75	75	58	58	58	42	42	42
1	94	89	85	82	85	81	77	74	65	62	60	50	48	47	36	35	34
2	85	78	72	66	77	70	65	61	56	53	49	44	41	39	32	30	29
3	78	68	61	55	70	62	55	50	50	45	41	38	35	33	28	26	24
4	71	60	52	46	64	54	48	42	44	39	35	34	30	28	25	22	21
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	22	20	18
6	60	48	40	34	54	43	36	31	35	30	26	27	24	21	20	18	16
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	17	14	12
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	15	13	11
10	44	32	25	20	40	30	23	19	24	19	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4945	4945	4945
5°	4953	4841	4853
10°	4916	4743	4730
15°	4856	4628	4577
20°	4776	4489	4425
25°	4680	4342	4242
30°	4564	4181	4075
35°	4455	4032	3921
40°	4345	3876	3767
45°	4221	3740	3627
50°	4102	3593	3502
55°	3958	3453	3356
60°	3801	3293	3206
65°	3636	3124	3038
70°	3448	2898	2862
75°	3152	2675	2648
80°	2763	2404	2411
85°	2378	2189	2288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4221 cd/sqm

TEST NUMBER: P1027982

CATALOG NUMBER: S125DIP-B610D1090UB30-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.1
10°-20°	207.3	3.2
20°-30°	308.3	4.8
30°-40°	365.1	5.6
40°-50°	377.5	5.8
50°-60°	347.7	5.4
60°-70°	281.1	4.3
70°-80°	188.1	2.9
80°-90°	99.2	1.5
90°-100°	100.0	1.5
100°-110°	341.3	5.3
110°-120°	569.0	8.8
120°-130°	710.9	11.0
130°-140°	754.9	11.6
140°-150°	703.5	10.8
150°-160°	568.0	8.8
160°-170°	367.3	5.7
170°-180°	126.7	2.0
0°-30°	588.7	9.1
0°-40°	953.8	14.7
0°-60°	1679.1	25.9
0°-90°	2247.5	34.6
90°-120°	1010.3	15.6
90°-150°	3179.5	49.0
90°-180°	4242.0	65.4
0°-180°	6489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	770	765	771	770	73
15°	737	738	732	737	734	208
25°	670	672	667	670	667	308
35°	580	585	583	585	585	363
45°	478	486	490	495	496	368
55°	367	379	391	400	403	328
65°	253	270	288	300	303	251
75°	139	159	183	198	202	148
85°	42	67	93	110	116	43
90°	13	45	78	100	108	11
95°	66	83	71	93	98	77
105°	297	314	336	351	356	315
115°	550	560	581	591	589	545
125°	779	785	800	808	809	696
135°	969	974	978	986	983	747
145°	1123	1124	1124	1129	1126	702
155°	1236	1230	1232	1235	1227	569
165°	1304	1298	1299	1305	1297	368
175°	1333	1328	1328	1336	1328	127
180°	1333	1333	1333	1333	1333	

TEST NUMBER: P1027982

CATALOG NUMBER: S125DIP-B610D1090UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.8	771.8	771.8	771.8	771.8
2.5°	774.1	772.6	767.3	772.6	771.8
5°	771.8	770.3	765.0	771.1	770.3
7.5°	766.5	765.8	760.5	765.8	765.0
10°	759.0	759.0	752.9	758.2	757.5
12.5°	748.4	749.1	744.6	748.4	746.1
15°	737.0	737.8	732.5	737.0	734.0
17.5°	722.6	724.2	718.9	722.6	720.4
20°	706.8	708.3	703.0	705.2	705.2
22.5°	688.6	691.6	685.6	688.6	686.3
25°	669.7	671.9	667.4	670.4	666.7
27.5°	649.2	652.3	647.0	649.2	647.7
30°	625.8	630.3	625.8	627.3	626.5
32.5°	604.6	608.4	605.4	606.9	606.1
35°	579.6	584.9	582.7	584.9	584.9
37.5°	555.4	560.0	559.2	562.2	561.5
40°	530.4	536.5	535.7	538.8	540.3
42.5°	503.2	511.5	513.8	517.6	517.6
45°	477.5	485.8	489.6	494.9	495.6
47.5°	451.0	458.6	464.6	472.2	473.7
50°	423.8	432.1	440.4	448.7	451.0
52.5°	395.0	405.6	416.2	425.3	426.8
55°	367.0	379.1	391.2	399.5	402.6
57.5°	338.2	352.6	366.2	375.3	377.6
60°	309.5	324.6	339.8	351.1	353.4
62.5°	281.5	296.6	313.3	326.1	329.2
65°	252.7	270.1	288.3	299.7	302.7
67.5°	226.3	242.9	261.1	274.7	278.5
70°	196.7	214.1	233.8	248.2	252.7
72.5°	168.0	186.1	208.1	224.0	227.0
75°	139.2	158.9	183.1	198.3	202.0
77.5°	111.2	133.9	156.6	173.3	176.3
80°	85.5	108.2	133.9	150.6	153.6
82.5°	62.0	86.3	112.7	128.6	134.7
85°	41.6	66.6	93.1	109.7	115.8
87.5°	26.5	50.7	76.4	93.8	99.1
90°	13.1	45.2	77.8	100.3	108.5
92.5°	29.4	42.4	74.8	96.5	102.7
95°	66.1	82.9	71.0	92.7	98.0
97.5°	114.9	138.9	70.0	87.9	94.2
100°	173.4	192.2	220.4	89.0	89.7
102.5°	233.0	251.2	276.7	293.8	215.3
105°	297.4	313.5	336.2	351.4	355.6
107.5°	363.9	374.4	398.4	414.5	415.1
110°	428.4	437.5	460.6	472.0	478.3

TEST NUMBER: P1027982

CATALOG NUMBER: S125DIP-B610D1090UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	489.6	499.4	520.8	530.5	533.9
115°	550.1	560.4	581.1	590.7	589.4
117.5°	613.7	617.5	640.3	647.2	650.5
120°	673.0	674.3	694.7	705.5	705.1
122.5°	724.6	730.3	747.9	758.0	756.7
125°	778.9	785.2	800.3	808.4	809.2
127.5°	830.6	834.8	846.7	856.0	852.7
130°	878.1	882.2	893.8	901.4	900.3
132.5°	924.7	930.7	935.3	945.9	943.9
135°	969.2	974.4	977.8	985.6	983.4
137.5°	1010.7	1015.9	1017.0	1026.1	1024.1
140°	1050.5	1052.5	1052.2	1062.5	1059.7
142.5°	1087.1	1087.3	1089.3	1096.1	1093.2
145°	1122.7	1123.9	1123.9	1128.7	1125.7
147.5°	1153.5	1153.5	1154.5	1157.0	1151.6
150°	1183.2	1181.2	1183.2	1185.2	1178.1
152.5°	1211.9	1206.9	1208.9	1210.9	1203.9
155°	1235.6	1229.6	1231.6	1234.6	1226.7
157.5°	1254.4	1251.4	1251.4	1254.4	1246.4
160°	1274.1	1268.2	1269.2	1273.1	1265.2
162.5°	1289.9	1284.0	1285.0	1290.9	1282.0
165°	1303.8	1297.8	1298.8	1304.8	1296.9
167.5°	1314.7	1308.7	1309.7	1316.6	1307.7
170°	1323.5	1316.6	1317.6	1325.5	1316.6
172.5°	1329.5	1322.6	1324.5	1331.5	1322.6
175°	1333.4	1327.5	1328.5	1336.4	1327.5
177.5°	1336.4	1330.5	1331.5	1338.4	1330.5
180°	1333.4	1333.4	1333.4	1333.4	1333.4

(END OF REPORT)