

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: P1027538

Luminaire Tested: S125DIP-B1270D1090UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027538
REPORT IS A COMBINATION OF REPORTS P1001546 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1090UB30-4F0-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

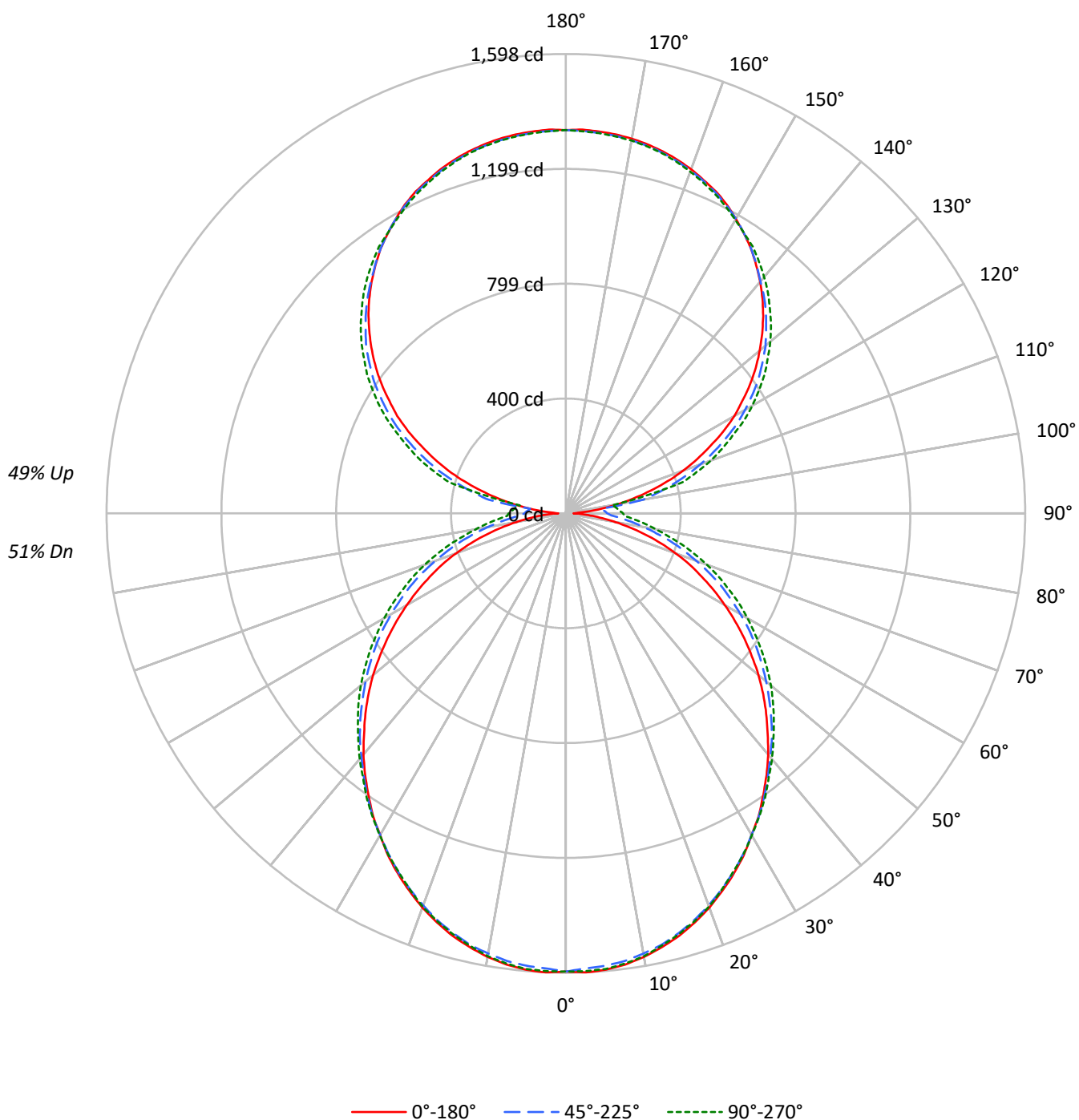
Lumens per Lamp: N/A
Luminaire Lumens: 9035.0 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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: P1027538

CATALOG NUMBER: S125DIP-B1270D1090UB30-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1027538

CATALOG NUMBER: S125DIP-B1270D1090UB30-4F0-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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	97	93	88	85	90	86	82	79	73	70	67	61	59	57	49	48	47
2	88	80	74	69	81	74	69	64	63	59	55	53	50	47	43	41	39
3	80	70	63	57	74	65	59	53	55	50	46	46	43	39	38	35	33
4	73	62	54	48	67	58	50	45	49	44	39	41	37	34	34	31	28
5	67	55	47	41	62	51	44	38	44	38	34	37	32	29	30	27	24
6	62	50	41	35	57	46	39	33	39	34	29	33	29	25	27	24	21
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	22	19
8	53	41	33	27	49	38	31	26	33	27	23	28	23	20	23	20	17
9	49	37	29	24	46	35	28	23	30	24	20	25	21	18	21	18	15
10	46	34	27	22	43	32	25	21	27	22	18	23	19	16	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10211	10211	10211
5°	10228	9997	10021
10°	10151	9793	9765
15°	10027	9556	9450
20°	9860	9269	9137
25°	9663	8965	8759
30°	9423	8632	8414
35°	9200	8326	8097
40°	8973	8003	7777
45°	8715	7723	7490
50°	8469	7419	7230
55°	8173	7129	6929
60°	7848	6799	6620
65°	7510	6451	6273
70°	7120	5985	5910
75°	6510	5524	5469
80°	5707	4966	4980
85°	4911	4519	4723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8715 cd/sqm

TEST NUMBER: P1027538

CATALOG NUMBER: S125DIP-B1270D1090UB30-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.7
10°-20°	428.1	4.7
20°-30°	636.6	7.0
30°-40°	754.0	8.3
40°-50°	779.5	8.6
50°-60°	718.0	7.9
60°-70°	580.5	6.4
70°-80°	388.4	4.3
80°-90°	202.7	2.2
90°-100°	158.3	1.8
100°-110°	384.3	4.3
110°-120°	597.7	6.6
120°-130°	727.2	8.0
130°-140°	762.0	8.4
140°-150°	704.9	7.8
150°-160°	568.0	6.3
160°-170°	367.3	4.1
170°-180°	126.7	1.4
0°-30°	1215.5	13.5
0°-40°	1969.5	21.8
0°-60°	3467.0	38.4
0°-90°	4638.6	51.3
90°-120°	1140.4	12.6
90°-150°	3334.4	36.9
90°-180°	4396.0	48.7
0°-180°	9035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1594	1591	1580	1592	1591	151
15°	1522	1523	1512	1522	1516	429
25°	1383	1388	1378	1384	1376	637
35°	1197	1208	1203	1208	1208	749
45°	986	1003	1011	1022	1023	761
55°	758	783	808	825	831	677
65°	522	558	595	619	625	518
75°	288	328	378	409	417	305
85°	86	138	192	227	239	90
90°	26	84	144	185	199	20
95°	77	114	130	169	180	85
105°	305	334	380	412	422	323
115°	555	571	612	637	640	550
125°	782	788	819	840	845	698
135°	971	975	984	1002	1004	748
145°	1124	1124	1124	1133	1133	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: P1027538

CATALOG NUMBER: S125DIP-B1270D1090UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1598.4	1595.3	1584.3	1595.3	1593.7
5°	1593.7	1590.6	1579.6	1592.1	1590.6
7.5°	1582.8	1581.2	1570.3	1581.2	1579.6
10°	1567.1	1567.1	1554.6	1565.6	1564.0
12.5°	1545.3	1546.8	1537.5	1545.3	1540.6
15°	1521.8	1523.4	1512.5	1521.8	1515.6
17.5°	1492.1	1495.3	1484.3	1492.1	1487.5
20°	1459.3	1462.5	1451.5	1456.2	1456.2
22.5°	1421.8	1428.1	1415.6	1421.8	1417.1
25°	1382.8	1387.5	1378.1	1384.3	1376.5
27.5°	1340.6	1346.8	1335.9	1340.6	1337.5
30°	1292.1	1301.5	1292.1	1295.3	1293.7
32.5°	1248.4	1256.2	1250.0	1253.1	1251.5
35°	1196.8	1207.8	1203.1	1207.8	1207.8
37.5°	1146.8	1156.2	1154.7	1160.9	1159.3
40°	1095.3	1107.8	1106.2	1112.5	1115.6
42.5°	1039.0	1056.2	1060.9	1068.7	1068.7
45°	985.9	1003.1	1010.9	1021.8	1023.4
47.5°	931.2	946.8	959.3	975.0	978.1
50°	875.0	892.2	909.3	926.5	931.2
52.5°	815.6	837.5	859.3	878.1	881.2
55°	757.8	782.8	807.8	825.0	831.2
57.5°	698.4	728.1	756.2	775.0	779.7
60°	639.0	670.3	701.5	725.0	729.7
62.5°	581.2	612.5	646.9	673.4	679.7
65°	521.9	557.8	595.3	618.7	625.0
67.5°	467.2	501.5	539.0	567.2	575.0
70°	406.2	442.2	482.8	512.5	521.9
72.5°	346.9	384.4	429.7	462.5	468.7
75°	287.5	328.1	378.1	409.4	417.2
77.5°	229.7	276.6	323.4	357.8	364.1
80°	176.6	223.4	276.6	310.9	317.2
82.5°	128.1	178.1	232.8	265.6	278.1
85°	85.9	137.5	192.2	226.6	239.1
87.5°	54.7	104.7	157.8	193.7	204.7
90°	26.0	83.9	143.9	184.9	198.7
92.5°	40.7	77.1	137.7	177.0	188.9
95°	76.6	114.3	129.9	169.2	180.2
97.5°	124.5	167.9	125.6	160.4	172.4
100°	182.3	218.0	272.0	157.5	163.0
102.5°	241.0	274.6	325.0	358.3	284.6
105°	304.7	333.7	380.5	411.8	421.7
107.5°	370.3	392.2	439.5	471.7	477.1
110°	434.0	452.8	498.4	525.2	537.2

TEST NUMBER: P1027538

CATALOG NUMBER: S125DIP-B1270D1090UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	495.2	512.3	555.5	579.6	588.6
115°	555.0	570.9	612.5	636.7	640.1
117.5°	617.7	625.5	668.5	689.1	698.1
120°	677.0	680.7	719.6	744.2	748.6
122.5°	727.8	734.3	769.7	792.7	796.2
125°	782.1	787.6	818.8	839.8	844.6
127.5°	833.0	836.4	862.0	883.4	884.9
130°	880.5	883.8	906.7	925.6	928.5
132.5°	926.3	932.3	944.9	966.8	968.1
135°	970.8	975.2	984.2	1002.5	1004.3
137.5°	1012.3	1016.7	1021.0	1039.8	1041.0
140°	1051.3	1053.3	1053.8	1073.0	1073.4
142.5°	1087.9	1087.3	1089.3	1103.4	1103.7
145°	1123.5	1123.9	1123.9	1132.7	1133.0
147.5°	1153.5	1153.5	1154.5	1158.6	1154.8
150°	1183.2	1181.2	1183.2	1185.2	1178.9
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)