

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: P1027388

Luminaire Tested: S125DIP-B1090D1270UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027388
REPORT IS A COMBINATION OF REPORTS P1001333 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1270UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

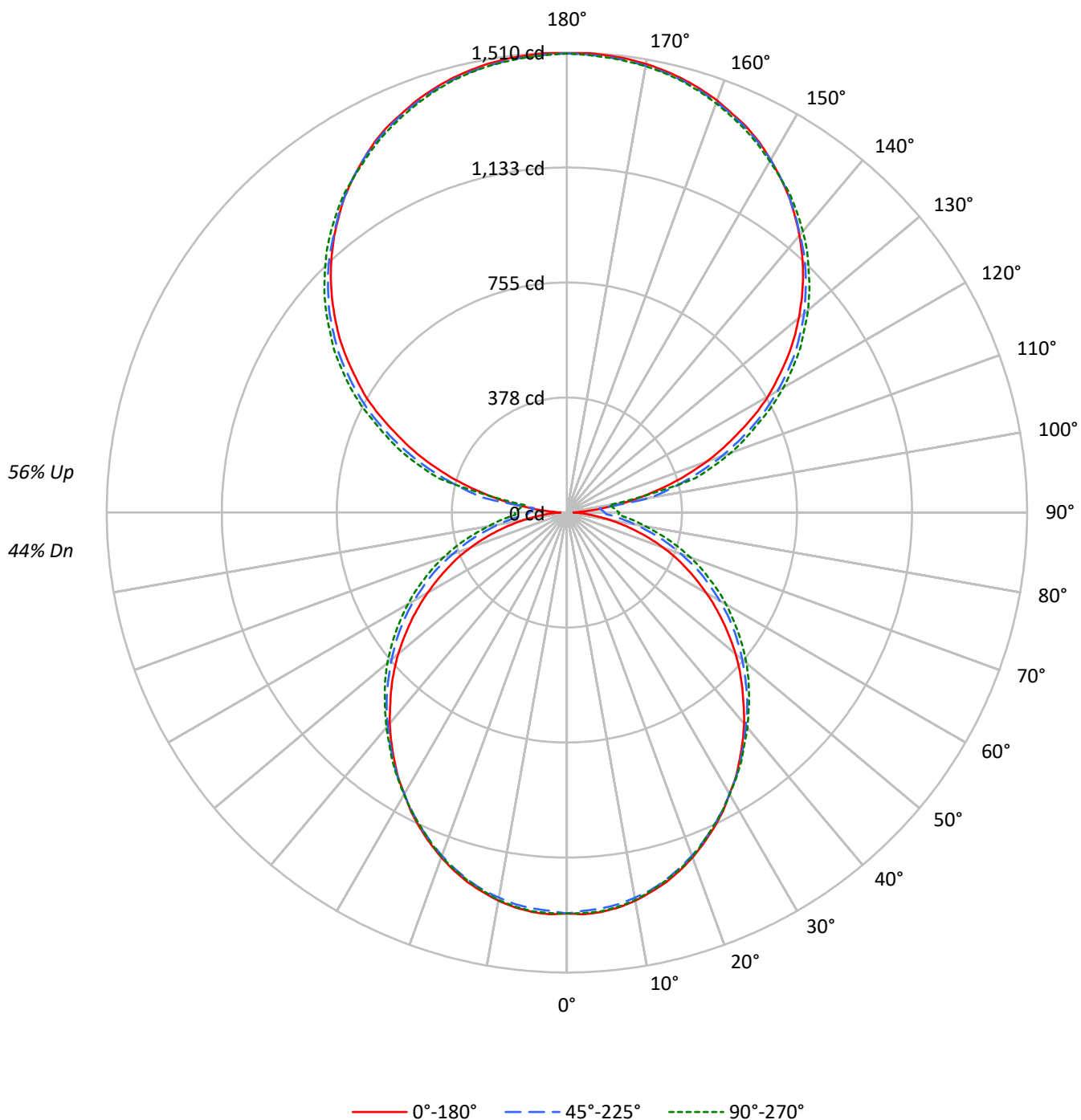
Lumens per Lamp: N/A
Luminaire Lumens: 8707.1 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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: P1027388

CATALOG NUMBER: S125DIP-B1090D1270UB50-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1027388

CATALOG NUMBER: S125DIP-B1090D1270UB50-4F0-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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	91	87	83	87	84	80	77	69	67	64	56	54	52	44	43	41
2	87	79	73	68	79	73	67	62	60	56	53	49	46	43	38	36	34
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	44	47	41	37	38	34	31	30	27	25
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	21
6	61	49	41	35	55	45	38	32	38	32	28	31	26	23	24	21	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	22	19	17
8	52	40	32	27	48	37	30	25	31	25	22	25	21	18	20	17	15
9	49	36	29	24	44	34	27	22	28	23	19	23	19	16	19	16	13
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8432	8432	8432
5°	8446	8256	8275
10°	8382	8087	8064
15°	8280	7891	7804
20°	8143	7655	7545
25°	7980	7403	7233
30°	7782	7129	6949
35°	7598	6875	6687
40°	7410	6609	6423
45°	7198	6378	6185
50°	6994	6126	5971
55°	6749	5888	5722
60°	6481	5614	5467
65°	6202	5327	5180
70°	5881	4943	4881
75°	5375	4562	4516
80°	4712	4101	4112
85°	4059	3732	3899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7198 cd/sqm

TEST NUMBER: P1027388

CATALOG NUMBER: S125DIP-B1090D1270UB50-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.4
10°-20°	353.5	4.1
20°-30°	525.7	6.0
30°-40°	622.6	7.2
40°-50°	643.7	7.4
50°-60°	593.0	6.8
60°-70°	479.3	5.5
70°-80°	320.7	3.7
80°-90°	168.0	1.9
90°-100°	144.5	1.7
100°-110°	408.9	4.7
110°-120°	658.4	7.6
120°-130°	812.0	9.3
130°-140°	856.7	9.8
140°-150°	795.6	9.1
150°-160°	641.7	7.4
160°-170°	415.0	4.8
170°-180°	143.1	1.6
0°-30°	1003.8	11.5
0°-40°	1626.4	18.7
0°-60°	2863.1	32.9
0°-90°	3831.2	44.0
90°-120°	1211.8	13.9
90°-150°	3676.0	42.2
90°-180°	4876.0	56.0
0°-180°	8707.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1316	1314	1304	1315	1314	125
15°	1257	1258	1249	1257	1252	354
25°	1142	1146	1138	1143	1137	526
35°	988	997	994	997	997	619
45°	814	828	835	844	845	628
55°	626	646	667	681	686	559
65°	431	461	492	511	516	428
75°	237	271	312	338	344	252
85°	71	114	159	187	197	74
90°	22	72	124	159	171	18
95°	80	111	112	146	155	91
105°	340	365	404	430	438	360
115°	624	639	674	692	693	619
125°	882	888	914	930	934	788
135°	1096	1101	1108	1123	1122	845
145°	1269	1270	1270	1277	1276	793
155°	1396	1389	1392	1395	1386	643
165°	1473	1466	1468	1474	1465	416
175°	1506	1500	1501	1510	1500	143
180°	1506	1506	1506	1506	1506	

TEST NUMBER: P1027388

CATALOG NUMBER: S125DIP-B1090D1270UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1320.0	1317.4	1308.3	1317.4	1316.1
5°	1316.1	1313.5	1304.5	1314.8	1313.5
7.5°	1307.1	1305.8	1296.7	1305.8	1304.5
10°	1294.1	1294.1	1283.8	1292.9	1291.6
12.5°	1276.1	1277.4	1269.6	1276.1	1272.2
15°	1256.7	1258.0	1249.0	1256.7	1251.6
17.5°	1232.2	1234.8	1225.8	1232.2	1228.3
20°	1205.1	1207.7	1198.7	1202.5	1202.5
22.5°	1174.2	1179.3	1169.0	1174.2	1170.3
25°	1141.9	1145.8	1138.0	1143.2	1136.7
27.5°	1107.1	1112.2	1103.2	1107.1	1104.5
30°	1067.1	1074.8	1067.1	1069.6	1068.4
32.5°	1030.9	1037.4	1032.2	1034.8	1033.5
35°	988.4	997.4	993.5	997.4	997.4
37.5°	947.1	954.8	953.5	958.7	957.4
40°	904.5	914.8	913.5	918.7	921.3
42.5°	858.0	872.2	876.1	882.6	882.6
45°	814.2	828.4	834.8	843.8	845.1
47.5°	769.0	781.9	792.2	805.1	807.7
50°	722.6	736.7	750.9	765.1	769.0
52.5°	673.5	691.6	709.7	725.1	727.7
55°	625.8	646.4	667.1	681.3	686.4
57.5°	576.8	601.3	624.5	640.0	643.8
60°	527.7	553.5	579.3	598.7	602.6
62.5°	480.0	505.8	534.2	556.1	561.3
65°	431.0	460.6	491.6	511.0	516.1
67.5°	385.8	414.2	445.1	468.4	474.8
70°	335.5	365.1	398.7	423.2	431.0
72.5°	286.4	317.4	354.8	381.9	387.1
75°	237.4	271.0	312.2	338.1	344.5
77.5°	189.7	228.4	267.1	295.5	300.6
80°	145.8	184.5	228.4	256.8	261.9
82.5°	105.8	147.1	192.3	219.3	229.7
85°	71.0	113.5	158.7	187.1	197.4
87.5°	45.2	86.4	130.3	160.0	169.0
90°	21.7	72.0	123.7	159.0	171.3
92.5°	39.3	66.7	118.5	152.5	162.7
95°	80.5	110.6	112.1	146.1	155.1
97.5°	135.0	172.7	109.1	138.4	148.7
100°	200.7	231.2	276.9	137.6	140.9
102.5°	267.5	296.5	338.7	366.8	280.8
105°	339.9	365.1	403.8	429.6	437.5
107.5°	414.6	432.7	472.3	499.2	502.6
110°	487.0	502.5	540.8	562.1	572.2

TEST NUMBER: P1027388

CATALOG NUMBER: S125DIP-B1090D1270UB50-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	556.2	571.2	607.2	625.9	632.7
115°	624.2	638.8	673.5	692.2	693.3
117.5°	695.6	702.0	738.7	753.9	760.7
120°	762.6	765.2	798.3	818.0	820.2
122.5°	820.5	827.3	856.8	875.2	876.2
125°	881.9	888.4	914.2	930.3	933.5
127.5°	939.8	944.0	964.8	982.0	980.8
130°	993.4	997.7	1016.8	1031.5	1032.4
132.5°	1045.7	1052.4	1061.9	1079.9	1079.5
135°	1095.9	1101.3	1108.1	1122.7	1122.4
137.5°	1142.8	1148.2	1151.2	1166.6	1166.2
140°	1187.3	1189.6	1189.7	1206.2	1204.6
142.5°	1228.6	1228.5	1230.7	1242.3	1240.8
145°	1268.8	1269.8	1269.8	1277.4	1275.8
147.5°	1303.3	1303.3	1304.4	1308.1	1302.9
150°	1336.8	1334.6	1336.8	1339.0	1331.4
152.5°	1369.2	1363.6	1365.8	1368.1	1360.2
155°	1396.0	1389.3	1391.5	1394.9	1385.9
157.5°	1417.2	1413.8	1413.8	1417.2	1408.3
160°	1439.5	1432.8	1433.9	1438.4	1429.5
162.5°	1457.4	1450.7	1451.8	1458.5	1448.5
165°	1473.0	1466.3	1467.5	1474.2	1465.2
167.5°	1485.3	1478.6	1479.7	1487.6	1477.5
170°	1495.4	1487.6	1488.7	1497.6	1487.6
172.5°	1502.1	1494.3	1496.5	1504.3	1494.3
175°	1506.5	1499.8	1501.0	1509.9	1499.8
177.5°	1509.9	1503.2	1504.3	1512.1	1503.2
180°	1506.5	1506.5	1506.5	1506.5	1506.5

(END OF REPORT)