

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: P1027320

Luminaire Tested: S125DIP-B1090D1090UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027320
REPORT IS A COMBINATION OF REPORTS P1001250 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D1090UB30-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

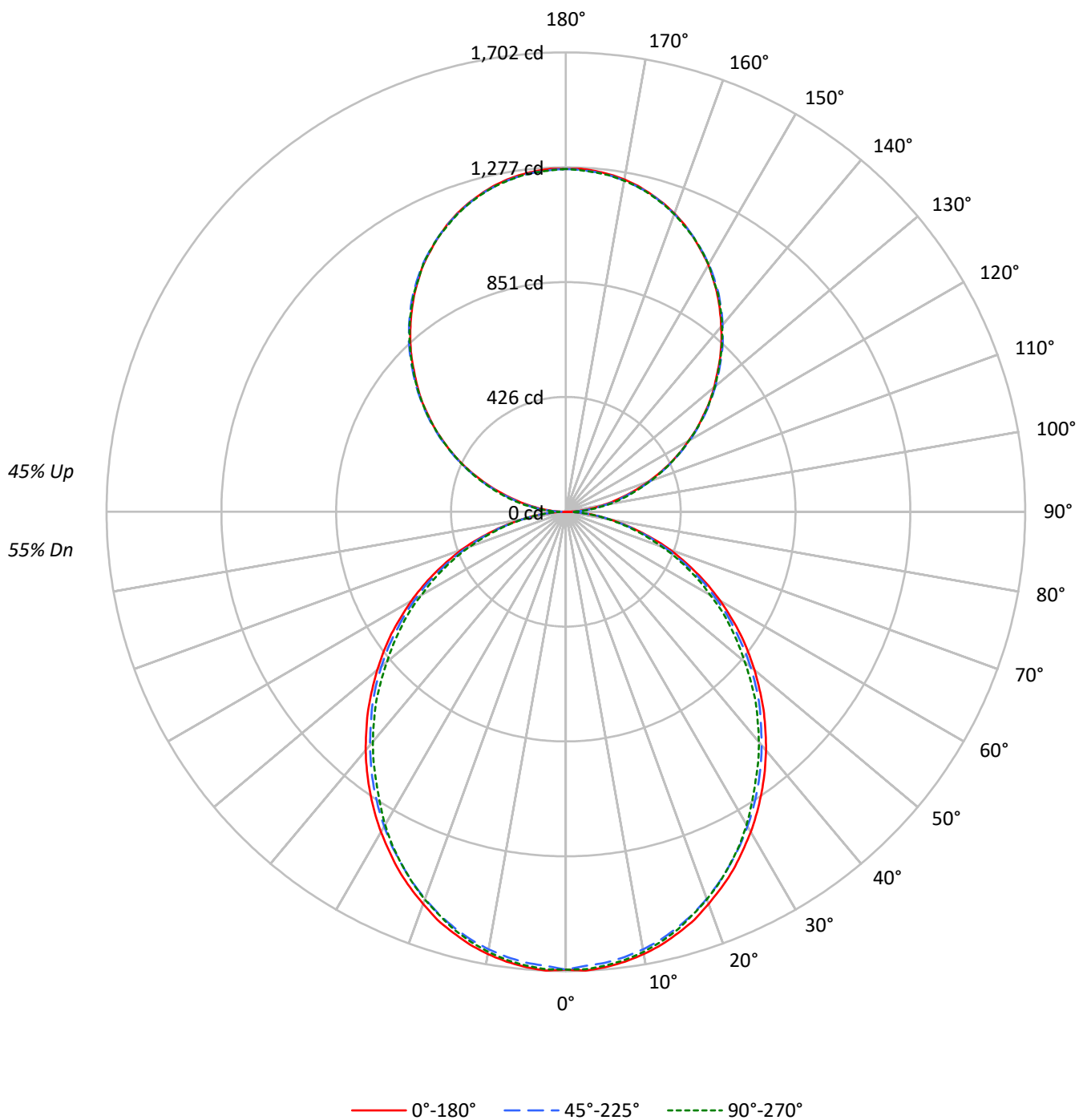
Lumens per Lamp: N/A
Luminaire Lumens: 7962.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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: P1027320

CATALOG NUMBER: S125DIP-B1090D1090UB30-4F0-XX-W2A-F1

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	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	95	91	87	92	88	85	81	76	73	71	64	63	61	54	53	52
2	90	83	76	71	83	77	71	67	66	62	59	56	53	51	47	45	43
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	38	34	32
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24
7	59	46	38	33	55	43	36	31	38	32	28	33	28	25	28	24	22
8	55	42	34	29	51	40	32	28	35	29	25	30	25	22	26	22	19
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10868	10868	10868
5°	10869	10616	10636
10°	10779	10372	10340
15°	10637	10081	9991
20°	10446	9744	9591
25°	10241	9376	9163
30°	9993	8992	8711
35°	9728	8590	8205
40°	9454	8165	7755
45°	9158	7751	7278
50°	8833	7281	6721
55°	8511	6763	6209
60°	8126	6217	5613
65°	7666	5584	4997
70°	7199	4858	4285
75°	6412	4000	3466
80°	5465	2988	2549
85°	4220	1768	1405

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9158 cd/sqm

TEST NUMBER: P1027320

CATALOG NUMBER: S125DIP-B1090D1090UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	2.0
10°-20°	452.1	5.7
20°-30°	667.5	8.4
30°-40°	778.8	9.8
40°-50°	782.2	9.8
50°-60°	686.6	8.6
60°-70°	511.4	6.4
70°-80°	292.1	3.7
80°-90°	86.3	1.1
90°-100°	84.5	1.1
100°-110°	250.9	3.2
110°-120°	425.6	5.3
120°-130°	560.2	7.0
130°-140°	627.8	7.9
140°-150°	615.3	7.7
150°-160°	516.9	6.5
160°-170°	343.6	4.3
170°-180°	120.2	1.5
0°-30°	1279.7	16.1
0°-40°	2058.4	25.9
0°-60°	3527.2	44.3
0°-90°	4417.0	55.5
90°-120°	761.0	9.6
90°-150°	2564.3	32.2
90°-180°	3545.0	44.5
0°-180°	7962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1696	1696	1696	1696	1696	
5°	1694	1691	1678	1690	1688	161
15°	1614	1610	1596	1602	1602	455
25°	1466	1459	1441	1444	1440	674
35°	1266	1260	1241	1235	1224	792
45°	1036	1031	1014	998	994	798
55°	789	785	766	754	745	704
65°	533	530	515	503	498	528
75°	283	280	274	270	264	301
85°	74	75	75	74	71	81
90°	1	9	16	21	24	9
95°	64	66	76	83	85	67
105°	225	230	236	242	245	240
115°	426	430	432	431	430	421
125°	622	628	629	627	626	557
135°	809	814	816	816	812	623
145°	980	984	986	986	984	612
155°	1121	1121	1122	1126	1121	516
165°	1219	1217	1218	1222	1216	344
175°	1267	1263	1263	1269	1262	120
180°	1270	1270	1270	1270	1270	

TEST NUMBER: P1027320

CATALOG NUMBER: S125DIP-B1090D1090UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1696.3	1696.3	1696.3	1696.3	1696.3
2.5°	1701.6	1697.6	1684.2	1697.6	1696.3
5°	1693.6	1690.9	1677.5	1689.6	1688.2
7.5°	1681.5	1678.8	1664.1	1676.2	1674.8
10°	1664.1	1661.4	1646.6	1657.4	1656.0
12.5°	1642.6	1637.2	1623.8	1631.9	1631.9
15°	1614.4	1610.4	1595.6	1602.3	1602.3
17.5°	1584.9	1578.2	1563.4	1571.5	1564.8
20°	1546.0	1543.3	1525.8	1535.2	1528.5
22.5°	1507.1	1501.7	1485.6	1491.0	1486.9
25°	1465.5	1458.7	1441.3	1444.0	1440.0
27.5°	1417.1	1413.1	1395.7	1397.0	1393.0
30°	1370.2	1366.1	1346.0	1343.3	1339.3
32.5°	1319.2	1312.5	1295.0	1289.7	1281.6
35°	1265.5	1260.1	1241.3	1234.6	1223.9
37.5°	1210.5	1203.8	1186.3	1176.9	1170.2
40°	1154.1	1147.4	1128.6	1116.5	1112.5
42.5°	1093.7	1088.4	1069.6	1058.8	1052.1
45°	1036.0	1030.7	1014.5	998.4	994.4
47.5°	972.9	974.3	954.2	938.1	928.7
50°	912.6	908.5	892.4	875.0	865.6
52.5°	850.8	848.1	830.7	815.9	805.2
55°	789.1	785.1	766.3	754.2	744.8
57.5°	723.3	722.0	705.9	689.8	685.8
60°	661.6	656.2	641.5	628.1	618.7
62.5°	597.2	593.2	581.1	566.3	559.6
65°	532.8	530.1	515.3	503.2	497.9
67.5°	469.7	464.3	453.6	442.9	440.2
70°	410.7	403.9	391.9	383.8	378.4
72.5°	346.2	342.2	335.5	326.1	320.7
75°	283.2	280.5	273.8	269.7	264.4
77.5°	224.1	222.8	218.7	216.1	212.0
80°	169.1	169.1	166.4	165.1	162.4
82.5°	120.8	118.1	118.1	115.4	115.4
85°	73.8	75.2	75.2	73.8	71.1
87.5°	36.2	36.2	34.9	34.9	32.2
90°	1.0	8.9	15.8	20.8	23.7
92.5°	29.7	34.6	43.5	50.4	52.4
95°	64.3	66.2	76.1	83.0	85.0
97.5°	98.8	99.8	113.7	119.6	120.6
100°	138.4	138.4	151.2	160.1	162.1
102.5°	180.9	185.8	190.8	200.7	203.6
105°	225.4	230.3	236.2	242.2	245.1
107.5°	273.8	278.8	283.7	286.7	286.7
110°	324.2	329.2	332.1	335.1	334.1

TEST NUMBER: P1027320

CATALOG NUMBER: S125DIP-B1090D1090UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.6	377.6	381.6	382.5	380.6
115°	426.0	430.0	432.0	431.0	430.0
117.5°	477.4	478.4	480.4	481.4	477.4
120°	524.9	529.8	530.8	530.8	526.9
122.5°	576.3	577.3	580.2	579.3	576.3
125°	621.8	627.7	628.7	626.7	625.7
127.5°	672.2	675.1	676.1	675.1	673.2
130°	716.6	721.6	723.6	722.6	720.6
132.5°	761.1	770.0	769.0	768.1	765.1
135°	808.6	814.5	815.5	815.5	811.5
137.5°	853.1	859.0	861.0	862.0	857.0
140°	895.6	900.5	903.5	905.4	900.5
142.5°	938.1	942.0	946.0	947.0	942.0
145°	979.6	983.5	986.5	986.5	983.5
147.5°	1018.1	1021.1	1023.1	1026.0	1018.1
150°	1056.7	1055.7	1059.7	1059.7	1057.7
152.5°	1088.3	1090.3	1091.3	1094.2	1090.3
155°	1120.9	1120.9	1121.9	1125.9	1120.9
157.5°	1150.6	1148.6	1149.6	1153.6	1146.6
160°	1176.3	1173.3	1174.3	1178.3	1173.3
162.5°	1199.0	1197.1	1197.1	1202.0	1196.1
165°	1218.8	1216.8	1217.8	1221.8	1215.8
167.5°	1236.6	1232.6	1232.6	1238.6	1232.6
170°	1250.4	1246.5	1246.5	1252.4	1245.5
172.5°	1260.3	1256.4	1256.4	1262.3	1256.4
175°	1267.2	1263.3	1263.3	1269.2	1262.3
177.5°	1272.2	1268.2	1267.2	1273.2	1266.2
180°	1270.2	1270.2	1270.2	1270.2	1270.2

(END OF REPORT)