

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: P1028466

Luminaire Tested: S125RDIP-B1090D1270UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028466
REPORT IS A COMBINATION OF REPORTS P1004991 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1270UB40-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

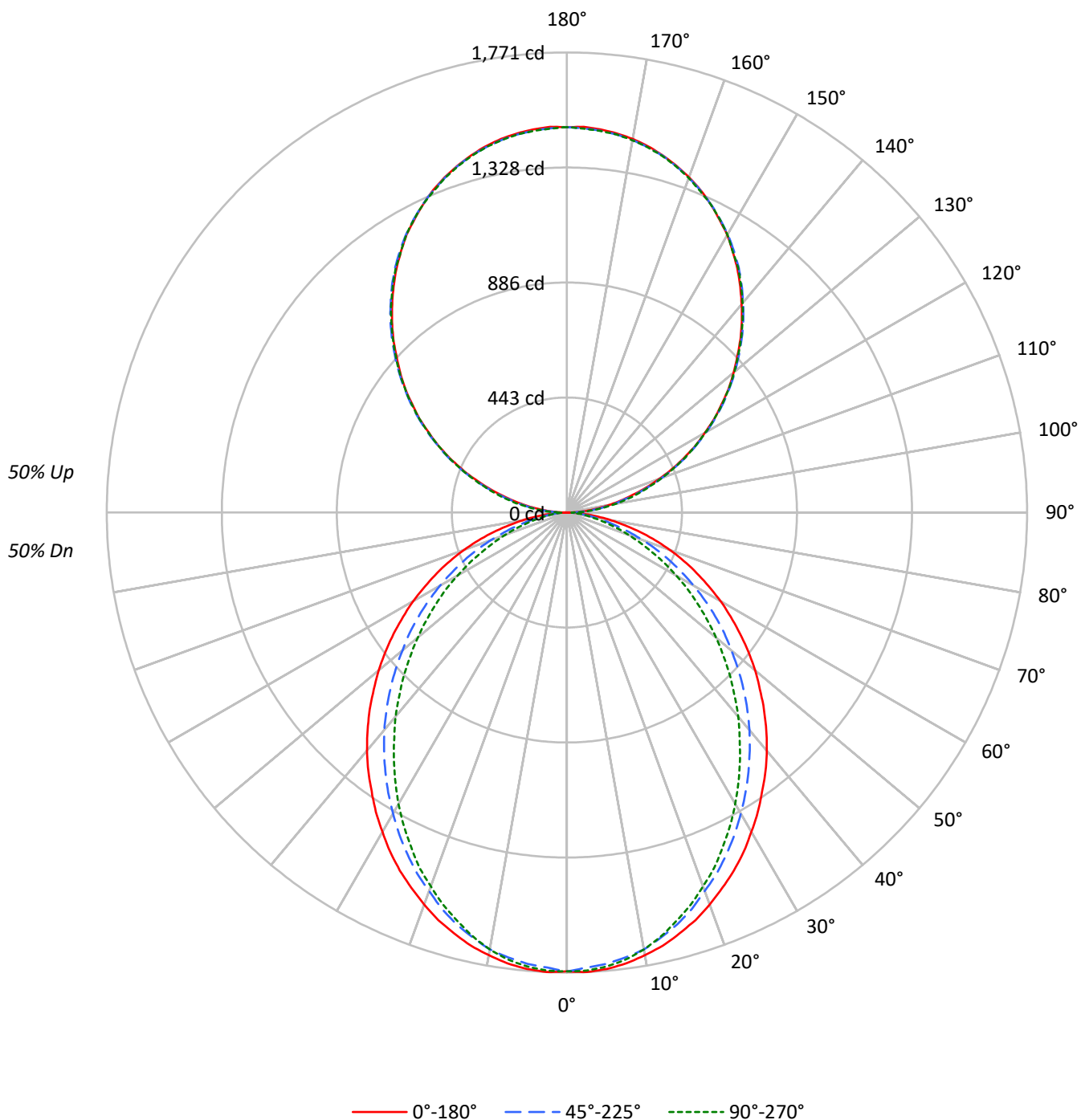
Lumens per Lamp: N/A
Luminaire Lumens: 8317.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1028466

CATALOG NUMBER: S125RDIP-B1090D1270UB40-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1028466

CATALOG NUMBER: S125RDIP-B1090D1270UB40-4F0-XX-W2A-F1

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
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56
1	98	94	90	87	90	87	84	81	74	71	69		61	60	58		50
2	89	82	76	71	82	76	71	66	65	61	57		54	51	49		44
3	82	72	65	59	75	67	61	56	57	52	49		48	45	42		39
4	75	64	56	50	69	60	53	47	51	46	42		43	39	36		35
5	69	57	49	43	63	53	46	41	46	40	36		39	34	31		32
6	63	51	43	38	58	48	41	36	41	36	31		35	31	27		29
7	59	46	39	33	54	43	36	31	37	32	28		32	27	24		27
8	54	42	35	29	50	39	33	28	34	29	25		29	25	22		24
9	51	39	31	26	47	36	29	25	31	26	22		27	23	20		23
10	47	35	28	23	44	33	27	22	29	24	20		25	21	18		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11319	11319	11319
5°	11321	11037	11055
10°	11210	10759	10664
15°	11052	10369	10150
20°	10855	9901	9611
25°	10629	9444	9034
30°	10354	8941	8427
35°	10072	8431	7783
40°	9805	7906	7153
45°	9484	7339	6494
50°	9157	6739	5823
55°	8778	6147	5127
60°	8391	5470	4407
65°	7930	4714	3629
70°	7392	3838	2856
75°	6648	2886	2082
80°	5607	1869	1403
85°	4197	1004	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9484 cd/sqm

TEST NUMBER: P1028466

CATALOG NUMBER: S125RDIP-B1090D1270UB40-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	2.0
10°-20°	464.7	5.6
20°-30°	673.8	8.1
30°-40°	767.6	9.2
40°-50°	748.2	9.0
50°-60°	629.6	7.6
60°-70°	441.2	5.3
70°-80°	226.2	2.7
80°-90°	58.7	0.7
90°-100°	98.7	1.2
100°-110°	293.1	3.5
110°-120°	497.1	6.0
120°-130°	654.4	7.9
130°-140°	733.3	8.8
140°-150°	718.7	8.6
150°-160°	603.7	7.3
160°-170°	401.3	4.8
170°-180°	140.4	1.7
0°-30°	1304.7	15.7
0°-40°	2072.3	24.9
0°-60°	3450.1	41.5
0°-90°	4176.3	50.2
90°-120°	888.8	10.7
90°-150°	2995.2	36.0
90°-180°	4141.0	49.8
0°-180°	8317.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1764	1759	1744	1757	1755	167
15°	1677	1669	1641	1640	1628	473
25°	1521	1501	1452	1434	1420	700
35°	1310	1278	1218	1180	1161	821
45°	1073	1034	961	907	887	827
55°	814	771	696	636	615	728
65°	551	506	435	382	362	546
75°	294	254	198	168	159	310
85°	73	49	43	41	40	80
90°	1	10	18	24	28	9
95°	75	77	89	97	99	78
105°	263	269	276	283	286	281
115°	498	502	504	503	502	492
125°	726	733	734	732	731	651
135°	944	951	952	952	948	728
145°	1144	1149	1152	1152	1149	715
155°	1309	1309	1310	1315	1309	603
165°	1424	1421	1422	1427	1420	402
175°	1480	1476	1476	1482	1474	141
180°	1484	1484	1484	1484	1484	

TEST NUMBER: P1028466

CATALOG NUMBER: S125RDIP-B1090D1270UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.7	1766.7	1766.7	1766.7	1766.7
2.5°	1770.7	1766.7	1753.3	1766.7	1765.3
5°	1764.0	1758.7	1744.0	1757.3	1754.7
7.5°	1750.7	1745.3	1728.0	1738.6	1736.0
10°	1730.6	1726.6	1708.0	1712.0	1708.0
12.5°	1708.0	1702.6	1675.9	1678.6	1671.9
15°	1677.3	1669.3	1641.2	1639.9	1627.9
17.5°	1645.2	1633.2	1599.9	1593.2	1583.9
20°	1606.5	1593.2	1550.5	1543.8	1531.8
22.5°	1563.8	1550.5	1505.1	1490.5	1481.1
25°	1521.1	1501.1	1451.8	1434.4	1419.7
27.5°	1473.1	1449.1	1397.1	1374.4	1359.7
30°	1419.7	1394.4	1338.3	1307.7	1295.6
32.5°	1367.7	1337.0	1279.6	1244.9	1228.9
35°	1310.3	1278.3	1218.3	1179.6	1160.9
37.5°	1255.6	1216.9	1155.5	1110.2	1091.5
40°	1196.9	1156.9	1092.8	1042.1	1026.1
42.5°	1135.5	1094.2	1027.4	979.4	954.1
45°	1072.8	1034.1	960.7	907.4	887.3
47.5°	1007.4	967.4	894.0	839.3	816.6
50°	946.0	902.0	826.0	769.9	749.9
52.5°	879.3	834.0	763.2	701.9	681.8
55°	813.9	771.2	696.5	636.5	615.1
57.5°	747.2	701.9	629.8	571.1	552.4
60°	683.2	636.5	564.4	505.7	485.7
62.5°	615.1	571.1	497.7	444.3	424.3
65°	551.1	505.7	435.0	381.6	361.6
67.5°	487.0	441.7	373.6	322.9	306.9
70°	421.7	376.3	309.6	268.2	252.2
72.5°	357.6	313.6	252.2	214.8	205.5
75°	293.6	253.5	197.5	168.1	158.8
77.5°	228.2	196.1	149.4	126.8	118.8
80°	173.5	141.4	104.1	92.1	89.4
82.5°	120.1	92.1	69.4	65.4	64.0
85°	73.4	49.4	42.7	41.4	40.0
87.5°	30.7	21.3	20.0	20.0	18.7
90°	1.2	10.4	18.5	24.2	27.7
92.5°	34.6	40.4	50.8	58.9	61.2
95°	75.0	77.4	88.9	97.0	99.3
97.5°	115.5	116.6	132.8	139.7	140.9
100°	161.6	161.6	176.7	187.0	189.4
102.5°	211.3	217.1	222.8	234.4	237.8
105°	263.2	269.0	275.9	282.9	286.3
107.5°	319.8	325.6	331.4	334.8	334.8
110°	378.7	384.5	387.9	391.4	390.2



TEST NUMBER: P1028466

CATALOG NUMBER: S125RDIP-B1090D1270UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	438.7	441.0	445.7	446.8	444.5
115°	497.6	502.2	504.5	503.4	502.2
117.5°	557.7	558.8	561.1	562.3	557.7
120°	613.1	618.9	620.0	620.0	615.4
122.5°	673.1	674.3	677.7	676.6	673.1
125°	726.2	733.2	734.3	732.0	730.8
127.5°	785.1	788.6	789.7	788.6	786.3
130°	837.1	842.8	845.1	844.0	841.7
132.5°	889.0	899.4	898.3	897.1	893.6
135°	944.4	951.4	952.5	952.5	947.9
137.5°	996.4	1003.3	1005.6	1006.8	1001.0
140°	1046.0	1051.8	1055.3	1057.6	1051.8
142.5°	1095.7	1100.3	1104.9	1106.1	1100.3
145°	1144.2	1148.8	1152.3	1152.3	1148.8
147.5°	1189.2	1192.7	1195.0	1198.4	1189.2
150°	1234.2	1233.1	1237.7	1237.7	1235.4
152.5°	1271.2	1273.5	1274.7	1278.1	1273.5
155°	1309.3	1309.3	1310.4	1315.1	1309.3
157.5°	1343.9	1341.6	1342.8	1347.4	1339.3
160°	1373.9	1370.5	1371.6	1376.3	1370.5
162.5°	1400.5	1398.2	1398.2	1404.0	1397.0
165°	1423.6	1421.3	1422.4	1427.1	1420.1
167.5°	1444.4	1439.8	1439.8	1446.7	1439.8
170°	1460.5	1455.9	1455.9	1462.8	1454.8
172.5°	1472.1	1467.5	1467.5	1474.4	1467.5
175°	1480.2	1475.5	1475.5	1482.5	1474.4
177.5°	1485.9	1481.3	1480.2	1487.1	1479.0
180°	1483.6	1483.6	1483.6	1483.6	1483.6

(END OF REPORT)