

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: P1028472

Luminaire Tested: S125RDIP-B1090D1270UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028472
REPORT IS A COMBINATION OF REPORTS P1004997 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1270UB50-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

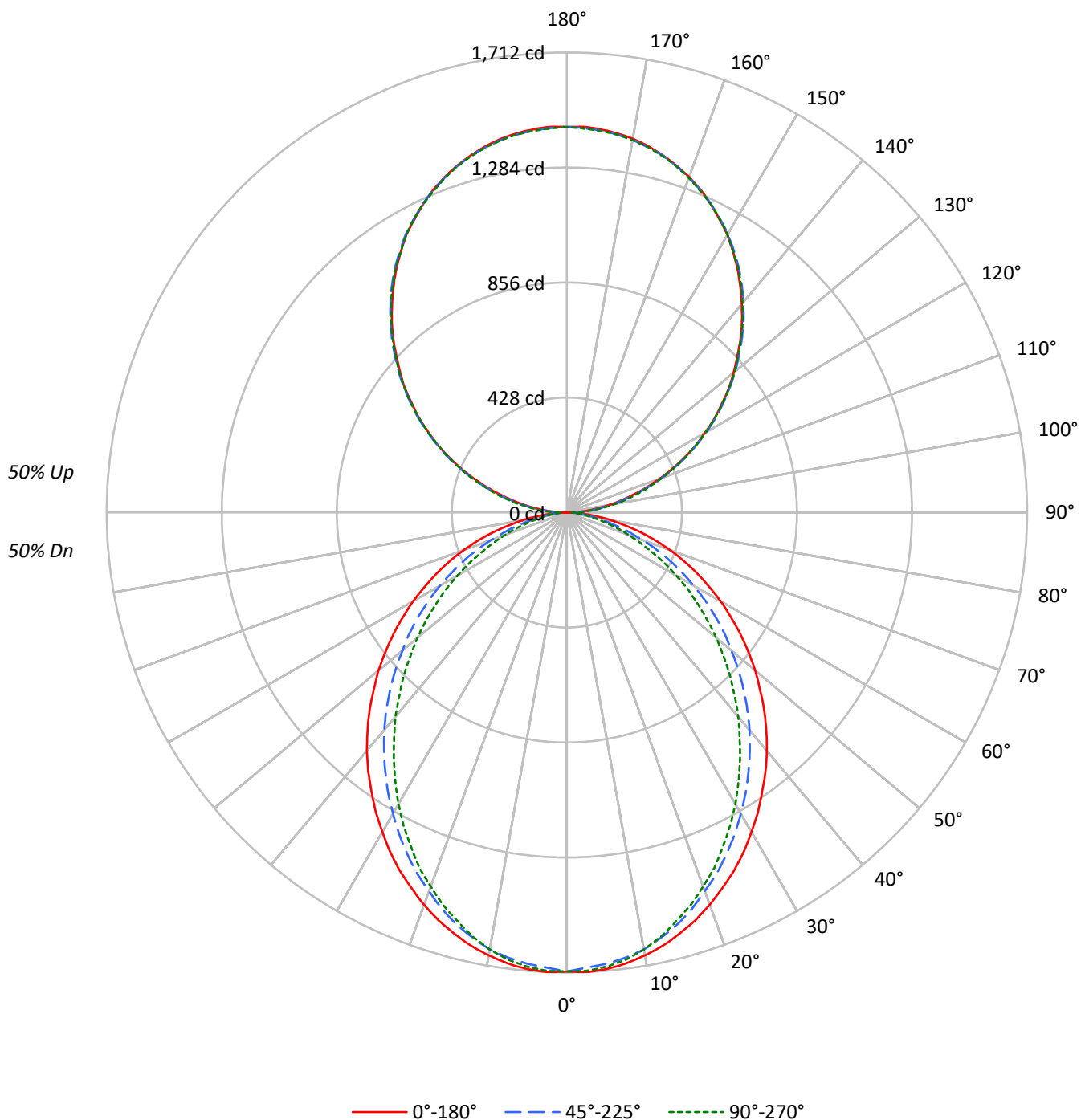
Lumens per Lamp: N/A
Luminaire Lumens: 8043.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1028472

CATALOG NUMBER: S125RDIP-B1090D1270UB50-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1028472

CATALOG NUMBER: S125RDIP-B1090D1270UB50-4F0-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	30	10
RCR																	
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	98	94	90	87	90	87	83	81	74	71	69	61	60	58	50	49	48
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	44	42	41
3	82	72	65	59	75	67	61	56	57	52	49	48	45	42	39	37	35
4	75	64	56	50	69	60	53	47	51	46	42	43	39	36	35	33	30
5	69	57	49	43	63	53	46	41	46	40	36	39	34	31	32	29	26
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23
7	59	46	39	33	54	43	36	31	37	32	28	32	27	24	27	23	21
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10945	10945	10945
5°	10946	10672	10689
10°	10839	10403	10312
15°	10686	10027	9815
20°	10496	9574	9294
25°	10279	9132	8735
30°	10012	8646	8148
35°	9739	8152	7525
40°	9481	7645	6917
45°	9170	7097	6279
50°	8855	6516	5630
55°	8488	5944	4958
60°	8114	5290	4261
65°	7668	4558	3510
70°	7147	3710	2762
75°	6426	2791	2012
80°	5419	1806	1356
85°	4059	971	764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9170 cd/sqm

TEST NUMBER: P1028472

CATALOG NUMBER: S125RDIP-B1090D1270UB50-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.0
10°-20°	449.3	5.6
20°-30°	651.5	8.1
30°-40°	742.2	9.2
40°-50°	723.5	9.0
50°-60°	608.8	7.6
60°-70°	426.7	5.3
70°-80°	218.7	2.7
80°-90°	56.8	0.7
90°-100°	95.4	1.2
100°-110°	283.5	3.5
110°-120°	480.8	6.0
120°-130°	632.9	7.9
130°-140°	709.2	8.8
140°-150°	695.1	8.6
150°-160°	583.9	7.3
160°-170°	388.1	4.8
170°-180°	135.8	1.7
0°-30°	1261.6	15.7
0°-40°	2003.8	24.9
0°-60°	3336.1	41.5
0°-90°	4038.2	50.2
90°-120°	859.7	10.7
90°-150°	2896.9	36.0
90°-180°	4005.0	49.8
0°-180°	8043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1706	1700	1686	1699	1697	162
15°	1622	1614	1587	1586	1574	457
25°	1471	1452	1404	1387	1373	677
35°	1267	1236	1178	1141	1122	793
45°	1037	1000	929	877	858	800
55°	787	746	674	615	595	704
65°	533	489	421	369	350	528
75°	284	245	191	163	154	300
85°	71	48	41	40	39	78
90°	1	10	18	24	27	9
95°	73	75	86	94	96	76
105°	255	260	267	274	277	271
115°	481	486	488	487	486	476
125°	702	709	710	708	707	629
135°	913	920	921	921	917	704
145°	1107	1111	1114	1114	1111	692
155°	1266	1266	1267	1272	1266	583
165°	1377	1375	1376	1380	1374	388
175°	1432	1427	1427	1434	1426	136
180°	1435	1435	1435	1435	1435	

TEST NUMBER: P1028472

CATALOG NUMBER: S125RDIP-B1090D1270UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1712.1	1708.3	1695.4	1708.3	1707.0
5°	1705.7	1700.5	1686.3	1699.2	1696.6
7.5°	1692.8	1687.6	1670.8	1681.2	1678.6
10°	1673.4	1669.5	1651.5	1655.4	1651.5
12.5°	1651.5	1646.3	1620.5	1623.1	1616.6
15°	1621.8	1614.1	1587.0	1585.7	1574.1
17.5°	1590.8	1579.2	1547.0	1540.5	1531.5
20°	1553.4	1540.5	1499.2	1492.8	1481.2
22.5°	1512.1	1499.2	1455.4	1441.2	1432.1
25°	1470.9	1451.5	1403.8	1387.0	1372.8
27.5°	1424.4	1401.2	1350.9	1328.9	1314.7
30°	1372.8	1348.3	1294.1	1264.4	1252.8
32.5°	1322.5	1292.8	1237.3	1203.8	1188.3
35°	1267.0	1236.0	1178.0	1140.6	1122.5
37.5°	1214.1	1176.7	1117.3	1073.5	1055.4
40°	1157.3	1118.6	1056.7	1007.7	992.2
42.5°	1098.0	1058.0	993.5	947.0	922.5
45°	1037.3	999.9	929.0	877.4	858.0
47.5°	974.1	935.4	864.4	811.6	789.6
50°	914.8	872.2	798.6	744.5	725.1
52.5°	850.3	806.4	738.0	678.7	659.3
55°	787.0	745.7	673.5	615.4	594.8
57.5°	722.5	678.7	609.0	552.2	534.2
60°	660.6	615.4	545.8	489.0	469.6
62.5°	594.8	552.2	481.3	429.6	410.3
65°	532.9	489.0	420.6	369.0	349.7
67.5°	470.9	427.1	361.3	312.2	296.8
70°	407.7	363.8	299.3	259.3	243.9
72.5°	345.8	303.2	243.9	207.7	198.7
75°	283.8	245.1	191.0	162.6	153.5
77.5°	220.6	189.7	144.5	122.6	114.8
80°	167.7	136.8	100.6	89.0	86.4
82.5°	116.1	89.0	67.1	63.2	61.9
85°	71.0	47.7	41.3	40.0	38.7
87.5°	29.7	20.6	19.4	19.4	18.1
90°	1.1	10.1	17.9	23.5	26.8
92.5°	33.5	39.1	49.1	57.0	59.2
95°	72.6	74.8	86.0	93.8	96.0
97.5°	111.7	112.8	128.4	135.1	136.2
100°	156.3	156.3	170.9	180.9	183.1
102.5°	204.4	209.9	215.5	226.7	230.0
105°	254.6	260.2	266.9	273.6	276.9
107.5°	309.3	314.9	320.5	323.8	323.8
110°	366.3	371.9	375.2	378.6	377.4

TEST NUMBER: P1028472

CATALOG NUMBER: S125RDIP-B1090D1270UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	424.3	426.6	431.0	432.2	429.9
115°	481.3	485.8	488.0	486.9	485.8
117.5°	539.4	540.5	542.7	543.8	539.4
120°	593.0	598.5	599.7	599.7	595.2
122.5°	651.0	652.1	655.5	654.4	651.0
125°	702.4	709.1	710.2	708.0	706.9
127.5°	759.3	762.7	763.8	762.7	760.5
130°	809.6	815.2	817.4	816.3	814.1
132.5°	859.8	869.9	868.8	867.7	864.3
135°	913.4	920.1	921.3	921.3	916.8
137.5°	963.7	970.4	972.6	973.7	968.2
140°	1011.7	1017.3	1020.6	1022.9	1017.3
142.5°	1059.7	1064.2	1068.7	1069.8	1064.2
145°	1106.6	1111.1	1114.4	1114.4	1111.1
147.5°	1150.2	1153.5	1155.8	1159.1	1150.2
150°	1193.7	1192.6	1197.1	1197.1	1194.8
152.5°	1229.5	1231.7	1232.8	1236.2	1231.7
155°	1266.3	1266.3	1267.4	1271.9	1266.3
157.5°	1299.8	1297.6	1298.7	1303.2	1295.3
160°	1328.8	1325.5	1326.6	1331.1	1325.5
162.5°	1354.5	1352.3	1352.3	1357.9	1351.2
165°	1376.9	1374.6	1375.7	1380.2	1373.5
167.5°	1397.0	1392.5	1392.5	1399.2	1392.5
170°	1412.6	1408.1	1408.1	1414.8	1407.0
172.5°	1423.8	1419.3	1419.3	1426.0	1419.3
175°	1431.6	1427.1	1427.1	1433.8	1426.0
177.5°	1437.2	1432.7	1431.6	1438.3	1430.5
180°	1434.9	1434.9	1434.9	1434.9	1434.9

(END OF REPORT)