

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: P1027063

Luminaire Tested: S125RDIP-B1090D1090UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027063
REPORT IS A COMBINATION OF REPORTS P1004934 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1090UB2750-4F0-XX-W2A-F_5000K
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

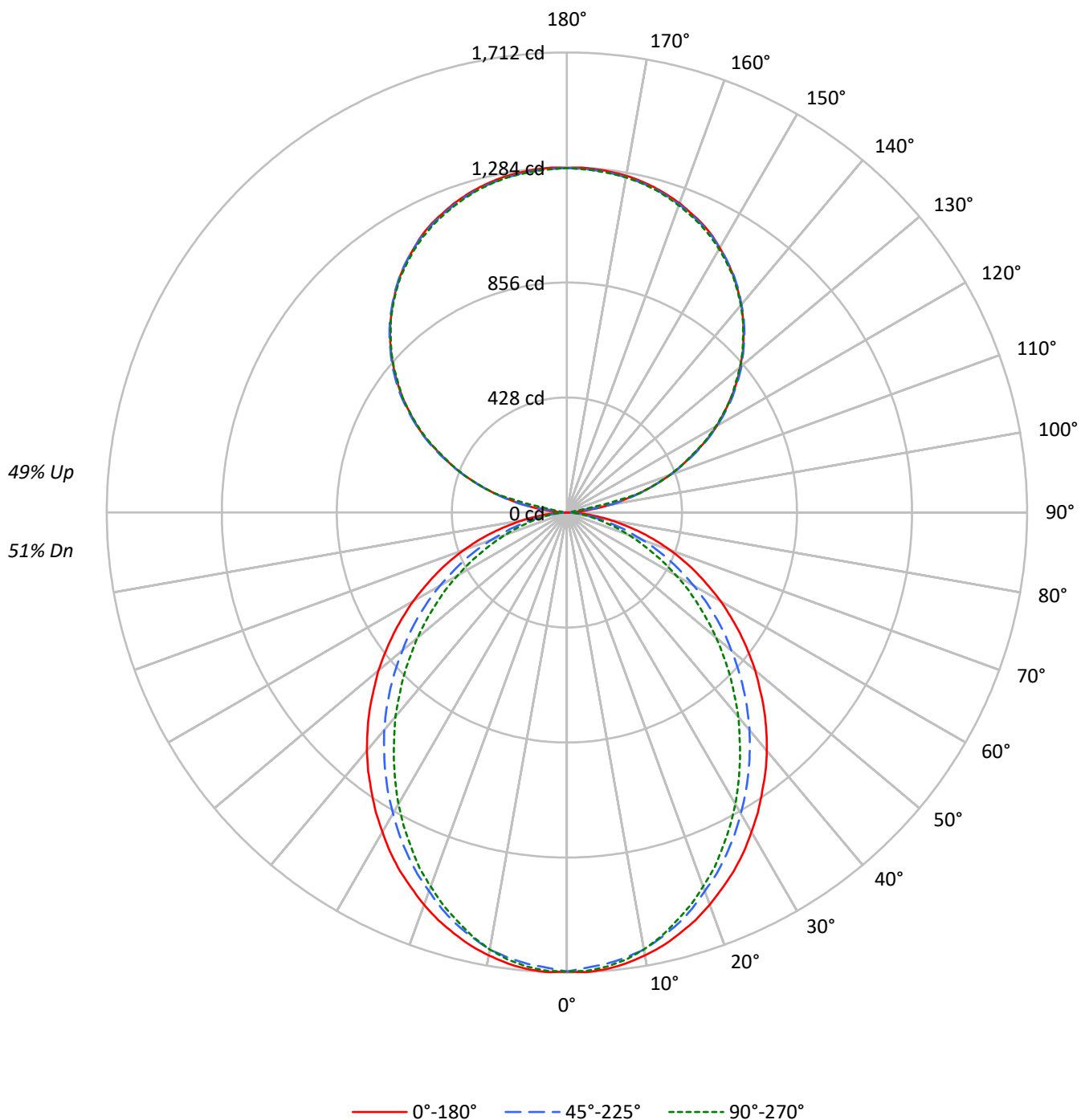
Lumens per Lamp: N/A
Luminaire Lumens: 7976.1 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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: P1027063

CATALOG NUMBER: S125RDIP-B1090D1090UB2750-4F0-XX-W2A-F_5000K

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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	98	94	90	87	91	87	84	81	74	71	69	62	60	58	50	49	48
2	90	82	76	71	82	76	71	67	65	61	58	54	52	49	45	43	41
3	82	72	65	59	75	67	61	56	57	53	49	48	45	42	40	37	35
4	75	64	56	50	69	60	53	48	51	46	42	43	39	36	36	33	30
5	69	57	49	43	63	53	46	41	46	40	36	39	35	31	32	29	27
6	63	52	43	38	58	48	41	36	41	36	32	35	31	27	29	26	24
7	59	47	39	33	54	43	36	31	38	32	28	32	28	24	27	23	21
8	55	42	35	29	50	40	33	28	34	29	25	29	25	22	25	21	19
9	51	39	31	26	47	36	29	25	31	26	22	27	23	20	23	19	17
10	47	35	28	24	44	33	27	22	29	24	20	25	21	18	21	18	16

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: P1027063

CATALOG NUMBER: S125RDIP-B1090D1090UB2750-4F0-XX-W2A-F_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.0
10°-20°	449.3	5.6
20°-30°	651.5	8.2
30°-40°	742.2	9.3
40°-50°	723.5	9.1
50°-60°	608.8	7.6
60°-70°	426.7	5.3
70°-80°	218.7	2.7
80°-90°	56.5	0.7
90°-100°	43.5	0.5
100°-110°	289.3	3.6
110°-120°	521.0	6.5
120°-130°	668.8	8.4
130°-140°	719.3	9.0
140°-150°	675.1	8.5
150°-160°	546.1	6.8
160°-170°	353.2	4.4
170°-180°	121.8	1.5
0°-30°	1261.6	15.8
0°-40°	2003.8	25.1
0°-60°	3336.1	41.8
0°-90°	4037.9	50.6
90°-120°	853.9	10.7
90°-150°	2917.1	36.6
90°-180°	3938.0	49.4
0°-180°	7976.1	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	9	15	20	23	7
95°	54	51	15	20	20	66
105°	279	283	283	283	282	296
115°	525	529	530	526	521	520
125°	746	753	753	749	746	666
135°	930	936	934	932	927	717
145°	1079	1080	1080	1082	1076	675
155°	1188	1182	1184	1187	1179	547
165°	1254	1248	1249	1254	1247	354
175°	1282	1276	1277	1285	1276	122
180°	1282	1282	1282	1282	1282	

TEST NUMBER: P1027063

CATALOG NUMBER: S125RDIP-B1090D1090UB2750-4F0-XX-W2A-F_5000K

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°	1.0	8.6	15.2	20.0	22.8
92.5°	18.1	9.5	15.2	20.0	20.9
95°	54.2	51.3	15.2	20.0	20.0
97.5°	101.7	107.4	17.1	19.0	20.0
100°	158.7	161.6	165.4	23.8	20.0
102.5°	216.7	220.5	222.4	224.3	144.5
105°	279.4	283.2	283.2	283.2	282.3
107.5°	344.0	344.0	345.9	346.9	343.1
110°	406.7	406.7	408.7	405.8	406.7

TEST NUMBER: P1027063

CATALOG NUMBER: S125RDIP-B1090D1090UB2750-4F0-XX-W2A-F_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	465.7	468.5	469.5	465.7	463.8
115°	524.6	529.3	530.3	526.5	520.8
117.5°	586.4	586.4	590.2	584.5	582.6
120°	643.4	642.4	645.3	643.4	638.6
122.5°	693.8	698.5	699.5	697.6	691.9
125°	746.0	752.7	752.7	748.9	746.0
127.5°	796.4	801.1	800.2	798.3	790.7
130°	842.0	846.8	847.7	844.9	840.1
132.5°	887.6	893.3	890.5	890.5	885.7
135°	930.4	936.1	934.2	932.3	926.6
137.5°	970.3	976.0	974.1	974.1	969.4
140°	1009.3	1011.2	1010.2	1012.1	1006.4
142.5°	1044.4	1045.4	1047.3	1047.3	1041.6
145°	1078.6	1080.5	1080.5	1081.5	1075.8
147.5°	1109.1	1109.1	1110.0	1111.0	1104.3
150°	1137.6	1135.7	1137.6	1139.5	1131.9
152.5°	1165.1	1160.4	1162.3	1164.2	1157.5
155°	1187.9	1182.2	1184.1	1187.0	1179.4
157.5°	1206.0	1203.1	1203.1	1206.0	1198.4
160°	1225.0	1219.3	1220.2	1224.1	1216.4
162.5°	1240.2	1234.5	1235.5	1241.2	1232.6
165°	1253.5	1247.8	1248.8	1254.5	1246.9
167.5°	1264.0	1258.3	1259.2	1265.9	1257.3
170°	1272.5	1265.9	1266.8	1274.4	1265.9
172.5°	1278.2	1271.6	1273.5	1280.1	1271.6
175°	1282.0	1276.3	1277.3	1284.9	1276.3
177.5°	1284.9	1279.2	1280.1	1286.8	1279.2
180°	1282.0	1282.0	1282.0	1282.0	1282.0

(END OF REPORT)