

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: P1027222

Luminaire Tested: S125RDIP-B610D1270UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027222
REPORT IS A COMBINATION OF REPORTS P1005573 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B610D1270UB2750-4F0-XX-W2A-F_4000K
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

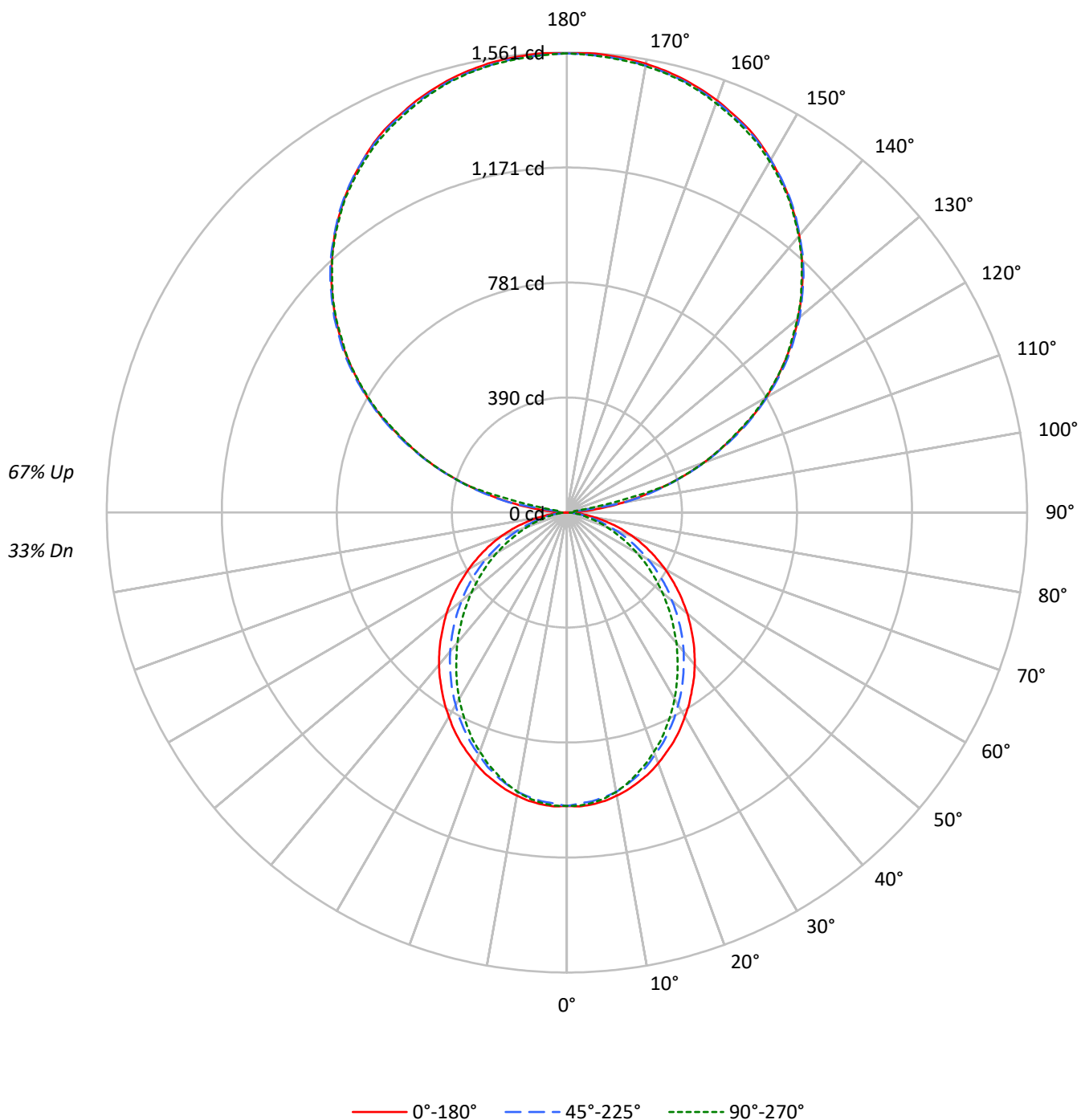
Lumens per Lamp: N/A
Luminaire Lumens: 7141.1 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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

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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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	30	29
3	78	69	62	57	70	63	57	52	50	46	43	39	36	34	28	27	25
4	72	61	54	48	64	56	49	44	45	40	36	35	31	29	25	23	22
5	66	55	47	41	59	49	43	38	40	35	31	31	28	25	23	21	19
6	60	49	41	35	54	44	38	33	36	31	27	28	25	22	21	18	17
7	56	44	36	31	50	40	33	29	33	28	24	26	22	19	19	17	15
8	52	40	32	27	47	36	30	25	30	25	21	23	20	17	17	15	13
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	16	14	12
10	45	33	26	22	40	30	24	20	25	20	17	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6381	6381	6381
5°	6382	6222	6232
10°	6319	6065	6012
15°	6230	5846	5722
20°	6120	5582	5418
25°	5992	5324	5092
30°	5837	5041	4751
35°	5678	4753	4387
40°	5527	4457	4032
45°	5346	4138	3661
50°	5162	3799	3282
55°	4948	3466	2891
60°	4730	3084	2484
65°	4471	2657	2045
70°	4167	2163	1610
75°	3747	1626	1173
80°	3160	1054	791
85°	2367	567	446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5346 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	1.3
10°-20°	261.9	3.7
20°-30°	379.8	5.3
30°-40°	432.7	6.1
40°-50°	421.8	5.9
50°-60°	355.0	5.0
60°-70°	248.7	3.5
70°-80°	127.5	1.8
80°-90°	34.1	0.5
90°-100°	52.9	0.7
100°-110°	351.6	4.9
110°-120°	633.2	8.9
120°-130°	812.7	11.4
130°-140°	874.1	12.2
140°-150°	820.4	11.5
150°-160°	663.6	9.3
160°-170°	429.2	6.0
170°-180°	148.0	2.1
0°-30°	735.5	10.3
0°-40°	1168.2	16.4
0°-60°	1944.9	27.2
0°-90°	2355.3	33.0
90°-120°	1037.7	14.5
90°-150°	3544.9	49.6
90°-180°	4786.0	67.0
0°-180°	7141.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	994	991	983	991	989	94
15°	946	941	925	924	918	267
25°	858	846	818	809	800	395
35°	739	721	687	665	654	463
45°	605	583	542	512	500	466
55°	459	435	393	359	347	410
65°	311	285	245	215	204	308
75°	166	143	111	95	90	175
85°	41	28	24	23	23	45
90°	1	10	18	24	28	6
95°	66	62	18	24	24	81
105°	340	344	344	344	343	360
115°	638	643	644	640	633	632
125°	907	915	915	910	907	810
135°	1131	1138	1135	1133	1126	872
145°	1311	1313	1313	1314	1307	820
155°	1444	1437	1439	1442	1433	665
165°	1523	1516	1518	1524	1515	430
175°	1558	1551	1552	1561	1551	148
180°	1558	1558	1558	1558	1558	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.9	995.9	995.9	995.9	995.9
2.5°	998.2	995.9	988.4	995.9	995.2
5°	994.4	991.4	983.1	990.7	989.1
7.5°	986.9	983.9	974.1	980.1	978.6
10°	975.6	973.4	962.8	965.1	962.8
12.5°	962.8	959.8	944.8	946.3	942.5
15°	945.5	941.0	925.2	924.5	917.7
17.5°	927.5	920.7	901.9	898.1	892.9
20°	905.7	898.1	874.1	870.3	863.5
22.5°	881.6	874.1	848.5	840.2	834.9
25°	857.5	846.2	818.4	808.6	800.3
27.5°	830.4	816.9	787.6	774.8	766.5
30°	800.3	786.1	754.5	737.2	730.4
32.5°	771.0	753.7	721.4	701.8	692.8
35°	738.7	720.6	686.8	664.9	654.4
37.5°	707.8	686.0	651.4	625.8	615.3
40°	674.7	652.2	616.1	587.5	578.4
42.5°	640.1	616.8	579.2	552.1	537.8
45°	604.8	583.0	541.6	511.5	500.2
47.5°	567.9	545.3	504.0	473.1	460.3
50°	533.3	508.5	465.6	434.0	422.7
52.5°	495.7	470.1	430.3	395.7	384.4
55°	458.8	434.8	392.7	358.8	346.8
57.5°	421.2	395.7	355.0	321.9	311.4
60°	385.1	358.8	318.2	285.1	273.8
62.5°	346.8	321.9	280.6	250.5	239.2
65°	310.7	285.1	245.2	215.1	203.8
67.5°	274.6	249.0	210.6	182.0	173.0
70°	237.7	212.1	174.5	151.2	142.2
72.5°	201.6	176.8	142.2	121.1	115.8
75°	165.5	142.9	111.3	94.8	89.5
77.5°	128.6	110.6	84.2	71.5	66.9
80°	97.8	79.7	58.7	51.9	50.4
82.5°	67.7	51.9	39.1	36.9	36.1
85°	41.4	27.8	24.1	23.3	22.6
87.5°	17.3	12.0	11.3	11.3	10.5
90°	1.2	10.4	18.5	24.3	27.7
92.5°	21.9	11.5	18.5	24.3	25.4
95°	65.8	62.4	18.5	24.3	24.3
97.5°	123.6	130.5	20.8	23.1	24.3
100°	192.9	196.3	201.0	28.9	24.3
102.5°	263.3	267.9	270.2	272.6	175.5
105°	339.5	344.2	344.2	344.2	343.0
107.5°	418.1	418.1	420.4	421.5	416.9
110°	494.3	494.3	496.6	493.1	494.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	565.9	569.4	570.5	565.9	563.6
115°	637.5	643.3	644.4	639.8	632.9
117.5°	712.6	712.6	717.2	710.3	707.9
120°	781.9	780.7	784.2	781.9	776.1
122.5°	843.1	848.8	850.0	847.7	840.8
125°	906.6	914.7	914.7	910.1	906.6
127.5°	967.8	973.6	972.4	970.1	960.9
130°	1023.2	1029.0	1030.2	1026.7	1020.9
132.5°	1078.7	1085.6	1082.1	1082.1	1076.4
135°	1130.6	1137.6	1135.3	1132.9	1126.0
137.5°	1179.1	1186.1	1183.8	1183.8	1178.0
140°	1226.5	1228.8	1227.6	1230.0	1223.0
142.5°	1269.2	1270.4	1272.7	1272.7	1265.8
145°	1310.8	1313.1	1313.1	1314.3	1307.3
147.5°	1347.8	1347.8	1348.9	1350.1	1342.0
150°	1382.4	1380.1	1382.4	1384.7	1375.5
152.5°	1415.9	1410.1	1412.4	1414.7	1406.7
155°	1443.6	1436.7	1439.0	1442.5	1433.2
157.5°	1465.6	1462.1	1462.1	1465.6	1456.3
160°	1488.7	1481.7	1482.9	1487.5	1478.3
162.5°	1507.1	1500.2	1501.4	1508.3	1497.9
165°	1523.3	1516.4	1517.5	1524.5	1515.2
167.5°	1536.0	1529.1	1530.2	1538.3	1527.9
170°	1546.4	1538.3	1539.5	1548.7	1538.3
172.5°	1553.3	1545.2	1547.6	1555.6	1545.2
175°	1557.9	1551.0	1552.2	1561.4	1551.0
177.5°	1561.4	1554.5	1555.6	1563.7	1554.5
180°	1557.9	1557.9	1557.9	1557.9	1557.9

(END OF REPORT)