

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: P1027220

Luminaire Tested: S125RDIP-B610D1270UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027220
REPORT IS A COMBINATION OF REPORTS P1005571 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_3000K
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

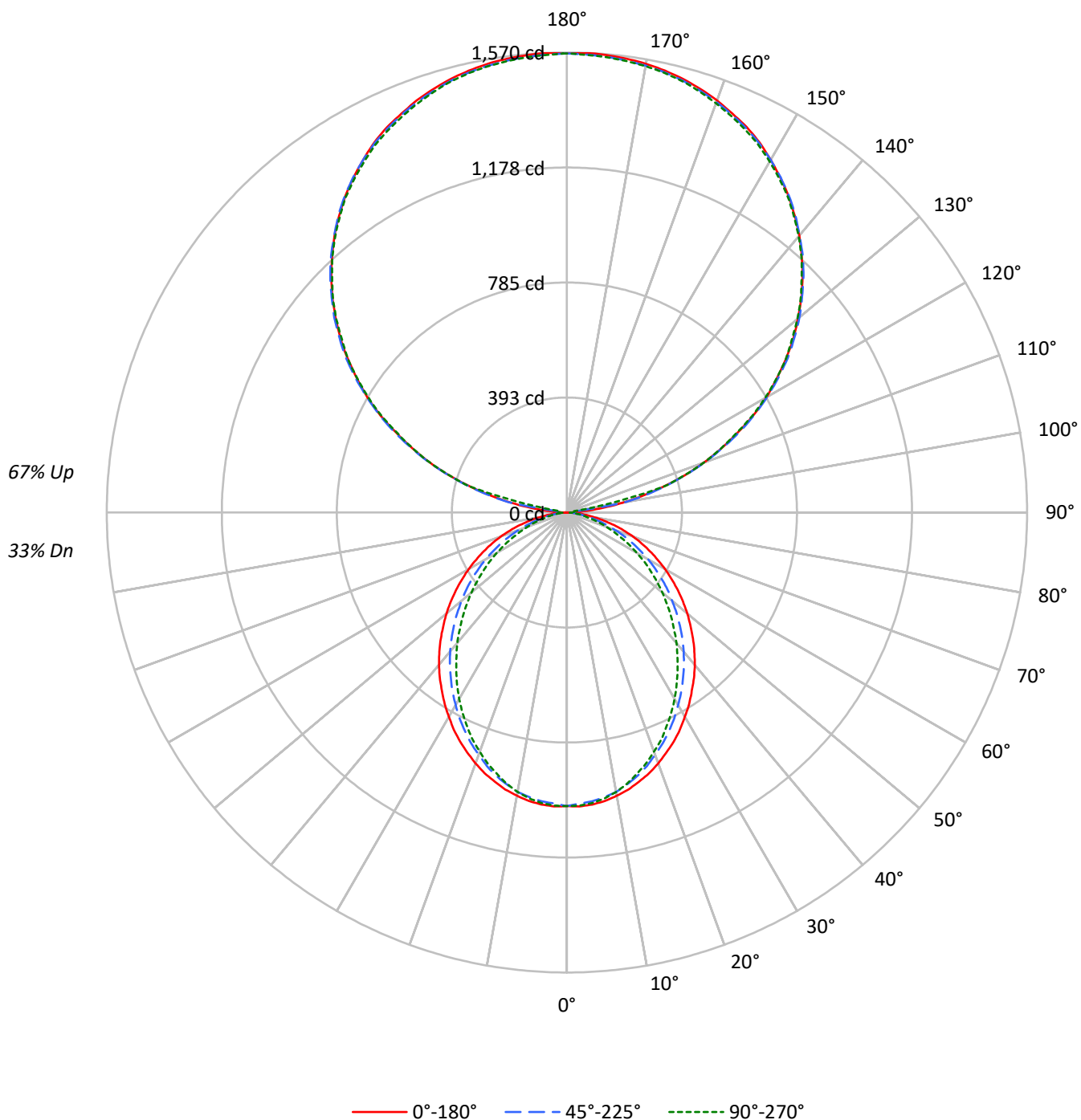
Lumens per Lamp: N/A
Luminaire Lumens: 7182.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	41	41	41
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°	6419	6419	6419
5°	6419	6259	6269
10°	6357	6101	6047
15°	6267	5880	5756
20°	6155	5615	5451
25°	6028	5356	5123
30°	5872	5070	4779
35°	5712	4780	4413
40°	5560	4483	4057
45°	5378	4162	3683
50°	5193	3822	3302
55°	4979	3486	2908
60°	4758	3102	2499
65°	4497	2673	2058
70°	4191	2176	1619
75°	3770	1636	1180
80°	3180	1059	796
85°	2378	569	448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5378 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.3
10°-20°	263.5	3.7
20°-30°	382.1	5.3
30°-40°	435.3	6.1
40°-50°	424.3	5.9
50°-60°	357.1	5.0
60°-70°	250.2	3.5
70°-80°	128.3	1.8
80°-90°	34.3	0.5
90°-100°	53.2	0.7
100°-110°	353.6	4.9
110°-120°	636.8	8.9
120°-130°	817.3	11.4
130°-140°	879.0	12.2
140°-150°	825.0	11.5
150°-160°	667.3	9.3
160°-170°	431.6	6.0
170°-180°	148.8	2.1
0°-30°	739.9	10.3
0°-40°	1175.2	16.4
0°-60°	1956.5	27.2
0°-90°	2369.3	33.0
90°-120°	1043.5	14.5
90°-150°	3564.9	49.6
90°-180°	4813.0	67.0
0°-180°	7182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1000	997	989	996	995	95
15°	951	947	931	930	923	268
25°	863	851	823	813	805	397
35°	743	725	691	669	658	465
45°	608	586	545	514	503	469
55°	462	437	395	361	349	413
65°	312	287	247	216	205	309
75°	166	144	112	95	90	176
85°	42	28	24	24	23	46
90°	1	10	19	24	28	6
95°	66	63	19	24	24	81
105°	342	346	346	346	345	362
115°	641	647	648	643	636	636
125°	912	920	920	915	912	814
135°	1137	1144	1142	1139	1132	877
145°	1318	1320	1320	1322	1315	824
155°	1452	1445	1447	1451	1441	669
165°	1532	1525	1526	1533	1524	433
175°	1567	1560	1561	1570	1560	149
180°	1567	1567	1567	1567	1567	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	1004.1	1001.8	994.3	1001.8	1001.1
5°	1000.3	997.3	989.0	996.5	995.0
7.5°	992.8	989.7	979.9	986.0	984.4
10°	981.4	979.1	968.5	970.8	968.5
12.5°	968.5	965.5	950.4	951.9	948.1
15°	951.1	946.6	930.7	930.0	923.1
17.5°	933.0	926.2	907.3	903.5	898.2
20°	911.0	903.5	879.3	875.5	868.7
22.5°	886.8	879.3	853.5	845.2	839.9
25°	862.6	851.3	823.3	813.4	805.1
27.5°	835.4	821.8	792.2	779.4	771.1
30°	805.1	790.7	758.9	741.5	734.7
32.5°	775.6	758.2	725.7	706.0	696.9
35°	743.1	724.9	690.8	668.9	658.3
37.5°	712.0	690.1	655.3	629.6	619.0
40°	678.7	656.0	619.7	591.0	581.9
42.5°	643.9	620.5	582.6	555.4	541.0
45°	608.4	586.4	544.8	514.5	503.2
47.5°	571.3	548.6	507.0	476.0	463.1
50°	536.5	511.5	468.4	436.6	425.3
52.5°	498.7	472.9	432.8	398.0	386.7
55°	461.6	437.4	395.0	360.9	348.8
57.5°	423.7	398.0	357.2	323.9	313.3
60°	387.4	360.9	320.1	286.8	275.4
62.5°	348.8	323.9	282.2	252.0	240.6
65°	312.5	286.8	246.7	216.4	205.1
67.5°	276.2	250.5	211.9	183.1	174.0
70°	239.1	213.4	175.5	152.1	143.0
72.5°	202.8	177.8	143.0	121.8	116.5
75°	166.5	143.8	112.0	95.3	90.0
77.5°	129.4	111.2	84.7	71.9	67.3
80°	98.4	80.2	59.0	52.2	50.7
82.5°	68.1	52.2	39.3	37.1	36.3
85°	41.6	28.0	24.2	23.5	22.7
87.5°	17.4	12.1	11.4	11.4	10.6
90°	1.2	10.5	18.6	24.4	27.9
92.5°	22.1	11.6	18.6	24.4	25.6
95°	66.2	62.7	18.6	24.4	24.4
97.5°	124.3	131.2	20.9	23.2	24.4
100°	194.0	197.4	202.1	29.0	24.4
102.5°	264.8	269.4	271.8	274.1	176.5
105°	341.5	346.1	346.1	346.1	344.9
107.5°	420.4	420.4	422.8	423.9	419.3
110°	497.1	497.1	499.4	495.9	497.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	569.1	572.6	573.7	569.1	566.8
115°	641.1	646.9	648.1	643.4	636.4
117.5°	716.6	716.6	721.2	714.3	711.9
120°	786.3	785.1	788.6	786.3	780.5
122.5°	847.8	853.6	854.8	852.5	845.5
125°	911.7	919.8	919.8	915.2	911.7
127.5°	973.3	979.1	977.9	975.6	966.3
130°	1029.0	1034.8	1036.0	1032.5	1026.7
132.5°	1084.8	1091.7	1088.2	1088.2	1082.4
135°	1137.0	1144.0	1141.7	1139.3	1132.4
137.5°	1185.8	1192.8	1190.4	1190.4	1184.6
140°	1233.4	1235.7	1234.6	1236.9	1229.9
142.5°	1276.4	1277.5	1279.9	1279.9	1272.9
145°	1318.2	1320.5	1320.5	1321.7	1314.7
147.5°	1355.4	1355.4	1356.5	1357.7	1349.6
150°	1390.2	1387.9	1390.2	1392.5	1383.2
152.5°	1423.9	1418.1	1420.4	1422.7	1414.6
155°	1451.8	1444.8	1447.1	1450.6	1441.3
157.5°	1473.8	1470.3	1470.3	1473.8	1464.5
160°	1497.0	1490.1	1491.2	1495.9	1486.6
162.5°	1515.6	1508.7	1509.8	1516.8	1506.3
165°	1531.9	1524.9	1526.1	1533.1	1523.8
167.5°	1544.7	1537.7	1538.9	1547.0	1536.5
170°	1555.1	1547.0	1548.2	1557.4	1547.0
172.5°	1562.1	1554.0	1556.3	1564.4	1554.0
175°	1566.7	1559.8	1560.9	1570.2	1559.8
177.5°	1570.2	1563.2	1564.4	1572.5	1563.2
180°	1566.7	1566.7	1566.7	1566.7	1566.7

(END OF REPORT)