

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: P1027271

Luminaire Tested: S125RDIP-B850D1270UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027271
REPORT IS A COMBINATION OF REPORTS P1005772 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B850D1270UB2750-4F0-XX-W2A-F_3500K
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

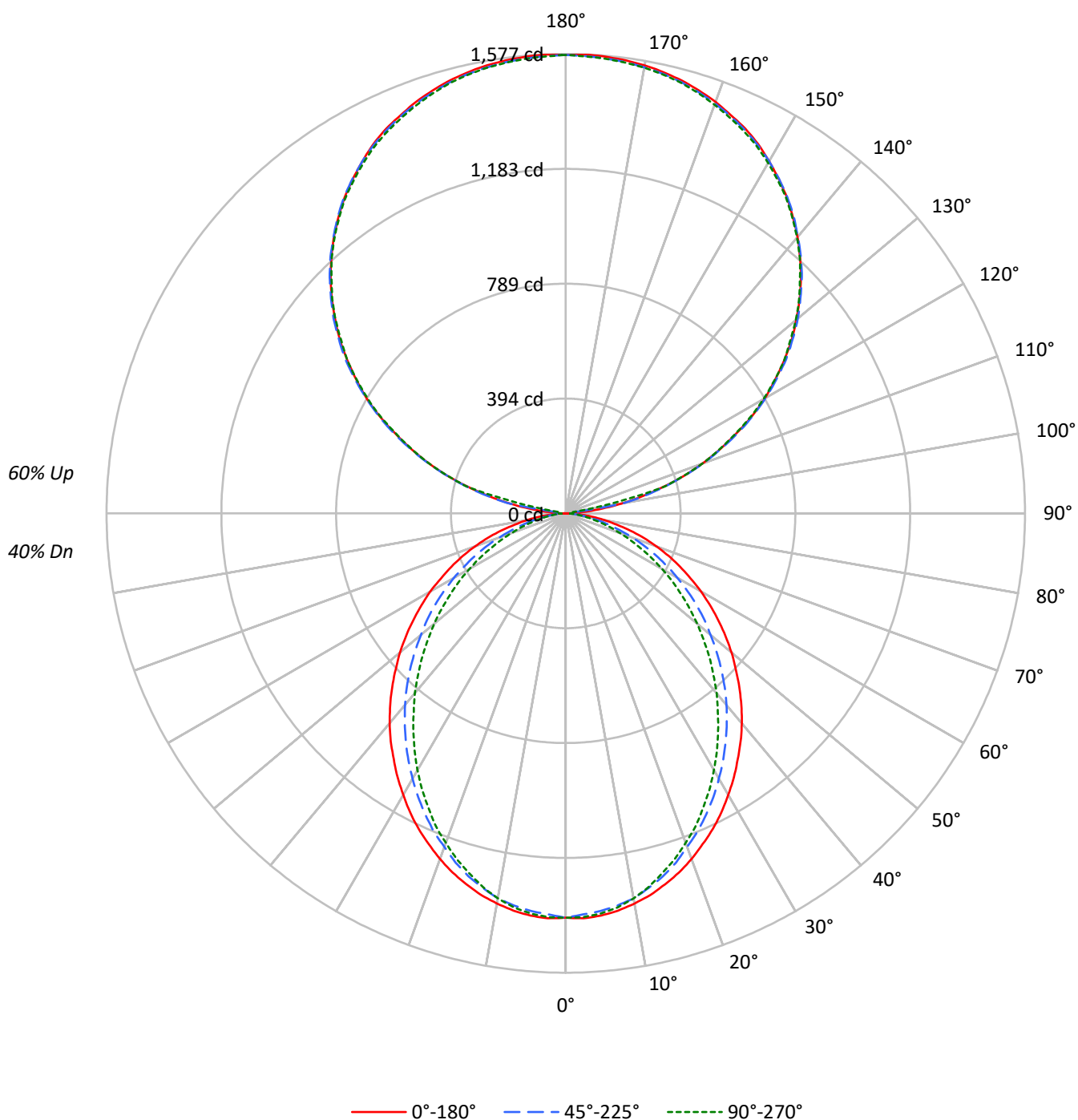
Lumens per Lamp: N/A
Luminaire Lumens: 8116.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70.9
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	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47			40
1	96	92	88	84	87	84	80	78	69	66	64	55	53	52	42	41	40			34
2	87	80	74	69	79	73	68	64	60	57	54	48	46	44	37	36	34			29
3	80	71	63	58	72	65	58	54	53	49	45	43	40	37	33	31	29			25
4	73	63	55	49	66	57	51	45	47	42	39	38	35	32	30	27	25			21
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22			19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	20			17
7	57	45	37	32	52	41	35	30	35	29	26	28	24	21	22	20	17			15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	20	18	16			13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14			12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13			11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8895	8895	8895
5°	8896	8673	8687
10°	8809	8454	8380
15°	8684	8149	7976
20°	8530	7781	7553
25°	8353	7421	7099
30°	8137	7026	6622
35°	7915	6625	6115
40°	7705	6213	5621
45°	7452	5768	5103
50°	7196	5296	4576
55°	6898	4830	4030
60°	6594	4298	3463
65°	6230	3704	2852
70°	5807	3016	2245
75°	5224	2268	1636
80°	4405	1469	1104
85°	3299	790	622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7452 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	1.6
10°-20°	365.1	4.5
20°-30°	529.4	6.5
30°-40°	603.2	7.4
40°-50°	587.9	7.2
50°-60°	494.8	6.1
60°-70°	346.7	4.3
70°-80°	177.7	2.2
80°-90°	46.7	0.6
90°-100°	53.4	0.7
100°-110°	355.1	4.4
110°-120°	639.5	7.9
120°-130°	820.9	10.1
130°-140°	882.9	10.9
140°-150°	828.6	10.2
150°-160°	670.3	8.3
160°-170°	433.5	5.3
170°-180°	149.5	1.8
0°-30°	1025.3	12.6
0°-40°	1628.5	20.1
0°-60°	2711.2	33.4
0°-90°	3282.3	40.4
90°-120°	1048.1	12.9
90°-150°	3580.4	44.1
90°-180°	4834.0	59.6
0°-180°	8116.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1386	1382	1370	1381	1379	131
15°	1318	1312	1290	1289	1279	372
25°	1195	1180	1141	1127	1116	550
35°	1030	1004	957	927	912	645
45°	843	813	755	713	697	650
55°	640	606	547	500	483	572
65°	433	397	342	300	284	429
75°	231	199	155	132	125	244
85°	58	39	34	32	32	63
90°	1	10	19	24	28	7
95°	66	63	19	24	24	81
105°	343	348	348	348	346	363
115°	644	650	651	646	639	638
125°	916	924	924	919	916	818
135°	1142	1149	1147	1144	1137	880
145°	1324	1326	1326	1327	1320	828
155°	1458	1451	1453	1457	1448	672
165°	1539	1532	1533	1540	1530	435
175°	1574	1567	1568	1577	1567	150
180°	1574	1574	1574	1574	1574	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1391.4	1388.3	1377.8	1388.3	1387.2
5°	1386.2	1382.0	1370.4	1380.9	1378.8
7.5°	1375.7	1371.5	1357.9	1366.3	1364.2
10°	1360.0	1356.8	1342.1	1345.3	1342.1
12.5°	1342.1	1337.9	1317.0	1319.1	1313.8
15°	1318.0	1311.7	1289.7	1288.7	1279.2
17.5°	1292.9	1283.4	1257.2	1252.0	1244.6
20°	1262.4	1252.0	1218.4	1213.2	1203.7
22.5°	1228.9	1218.4	1182.8	1171.2	1163.9
25°	1195.3	1179.6	1140.8	1127.2	1115.7
27.5°	1157.6	1138.7	1097.8	1080.0	1068.5
30°	1115.7	1095.7	1051.7	1027.6	1018.1
32.5°	1074.8	1050.6	1005.6	978.3	965.7
35°	1029.7	1004.5	957.3	926.9	912.2
37.5°	986.7	956.3	908.0	872.4	857.7
40°	940.5	909.1	858.8	818.9	806.3
42.5°	892.3	859.8	807.4	769.6	749.7
45°	843.0	812.6	755.0	713.0	697.3
47.5°	791.7	760.2	702.5	659.5	641.7
50°	743.4	708.8	649.1	605.0	589.3
52.5°	691.0	655.3	599.8	551.5	535.8
55°	639.6	606.1	547.3	500.2	483.4
57.5°	587.2	551.5	494.9	448.8	434.1
60°	536.9	500.2	443.5	397.4	381.7
62.5°	483.4	448.8	391.1	349.2	333.4
65°	433.0	397.4	341.8	299.9	284.2
67.5°	382.7	347.1	293.6	253.7	241.2
70°	331.3	295.7	243.3	210.8	198.2
72.5°	281.0	246.4	198.2	168.8	161.5
75°	230.7	199.2	155.2	132.1	124.8
77.5°	179.3	154.1	117.4	99.6	93.3
80°	136.3	111.1	81.8	72.3	70.3
82.5°	94.4	72.3	54.5	51.4	50.3
85°	57.7	38.8	33.6	32.5	31.5
87.5°	24.1	16.8	15.7	15.7	14.7
90°	1.2	10.5	18.7	24.5	28.0
92.5°	22.2	11.7	18.7	24.5	25.7
95°	66.5	63.0	18.7	24.5	24.5
97.5°	124.8	131.8	21.0	23.3	24.5
100°	194.8	198.3	203.0	29.2	24.5
102.5°	266.0	270.6	273.0	275.3	177.3
105°	342.9	347.6	347.6	347.6	346.4
107.5°	422.3	422.3	424.6	425.8	421.1
110°	499.2	499.2	501.6	498.1	499.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	571.6	575.1	576.2	571.6	569.2
115°	643.9	649.7	650.9	646.2	639.2
117.5°	719.7	719.7	724.4	717.4	715.0
120°	789.7	788.5	792.0	789.7	783.9
122.5°	851.5	857.4	858.5	856.2	849.2
125°	915.7	923.8	923.8	919.2	915.7
127.5°	977.5	983.3	982.2	979.8	970.5
130°	1033.5	1039.3	1040.5	1037.0	1031.2
132.5°	1089.5	1096.5	1093.0	1093.0	1087.1
135°	1142.0	1149.0	1146.6	1144.3	1137.3
137.5°	1191.0	1198.0	1195.6	1195.6	1189.8
140°	1238.8	1241.1	1240.0	1242.3	1235.3
142.5°	1281.9	1283.1	1285.4	1285.4	1278.5
145°	1323.9	1326.3	1326.3	1327.4	1320.4
147.5°	1361.3	1361.3	1362.4	1363.6	1355.4
150°	1396.3	1393.9	1396.3	1398.6	1389.3
152.5°	1430.1	1424.3	1426.6	1428.9	1420.8
155°	1458.1	1451.1	1453.4	1456.9	1447.6
157.5°	1480.2	1476.8	1476.8	1480.2	1470.9
160°	1503.6	1496.6	1497.7	1502.4	1493.1
162.5°	1522.2	1515.2	1516.4	1523.4	1512.9
165°	1538.6	1531.6	1532.7	1539.7	1530.4
167.5°	1551.4	1544.4	1545.6	1553.7	1543.2
170°	1561.9	1553.7	1554.9	1564.2	1553.7
172.5°	1568.9	1560.7	1563.1	1571.2	1560.7
175°	1573.6	1566.6	1567.7	1577.1	1566.6
177.5°	1577.1	1570.1	1571.2	1579.4	1570.1
180°	1573.6	1573.6	1573.6	1573.6	1573.6

(END OF REPORT)