

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: P1027121

Luminaire Tested: S125RDIP-B1270D1270UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027121
REPORT IS A COMBINATION OF REPORTS P1005172 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D1270UB2750-4F0-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

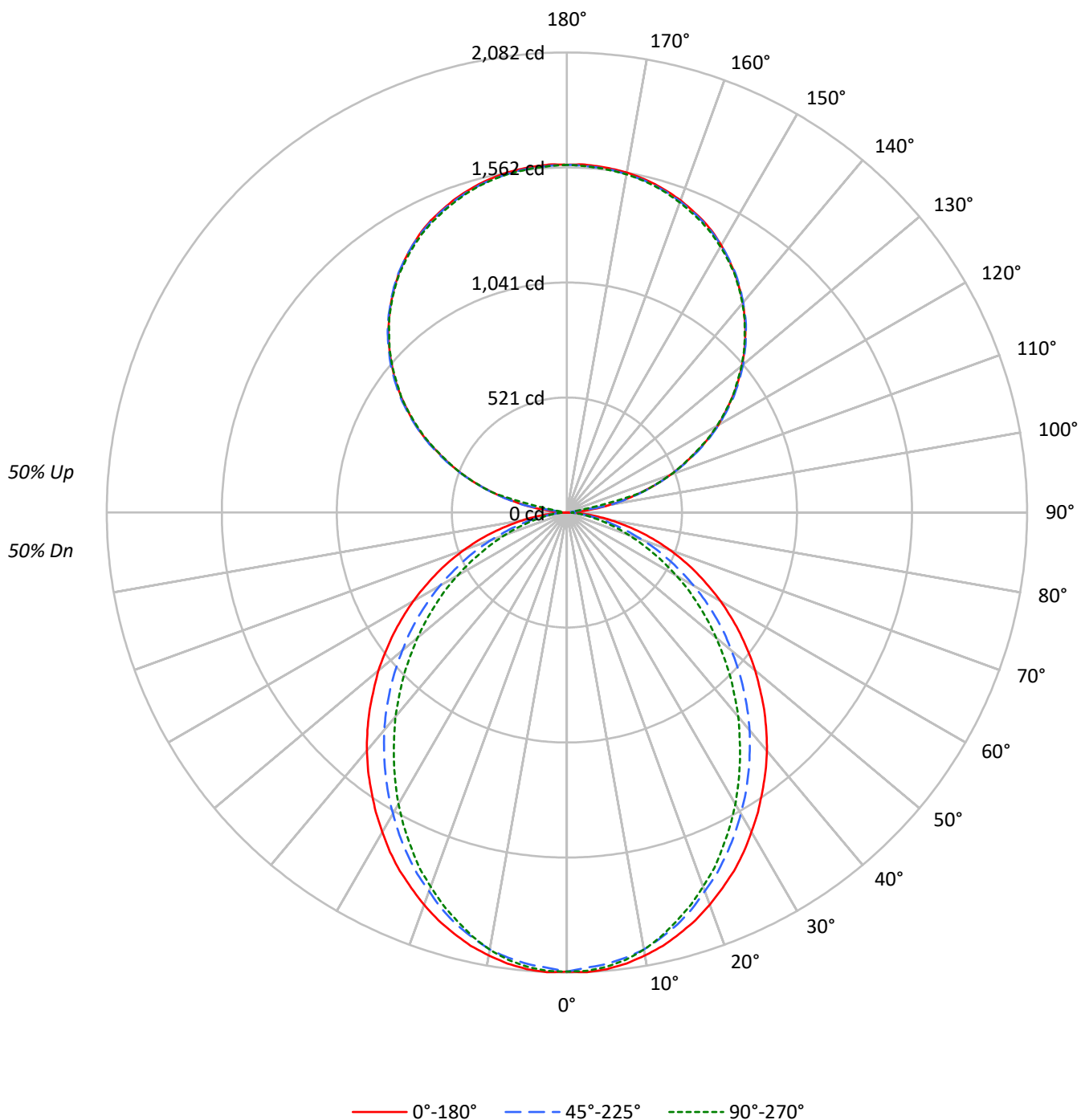
Lumens per Lamp: N/A
Luminaire Lumens: 9745.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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

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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	107	107	107	107	99	99	99	99	84	84	84	69	69	69	56	56	56
1	98	94	90	87	90	87	84	81	74	71	69	61	60	58	50	49	48
2	90	82	76	71	82	76	71	66	65	61	58	54	51	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	47	51	46	42	43	39	36	36	33	30
5	69	57	49	43	63	53	46	41	46	40	36	39	34	31	32	29	27
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23
7	59	47	39	33	54	43	36	31	37	32	28	32	28	24	27	23	21
8	54	42	35	29	50	39	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	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13313	13313	13313
5°	13314	12981	13001
10°	13184	12653	12542
15°	12997	12195	11938
20°	12766	11645	11304
25°	12501	11107	10624
30°	12177	10515	9911
35°	11847	9915	9153
40°	11532	9299	8413
45°	11153	8632	7638
50°	10769	7925	6848
55°	10325	7230	6030
60°	9869	6433	5182
65°	9326	5544	4268
70°	8693	4514	3359
75°	7816	3394	2447
80°	6592	2198	1650
85°	4934	1180	930

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11153 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	2.0
10°-20°	546.5	5.6
20°-30°	792.4	8.1
30°-40°	902.8	9.3
40°-50°	879.9	9.0
50°-60°	740.5	7.6
60°-70°	518.9	5.3
70°-80°	266.0	2.7
80°-90°	68.7	0.7
90°-100°	53.4	0.5
100°-110°	355.1	3.6
110°-120°	639.5	6.6
120°-130°	820.9	8.4
130°-140°	882.9	9.1
140°-150°	828.6	8.5
150°-160°	670.3	6.9
160°-170°	433.5	4.4
170°-180°	149.5	1.5
0°-30°	1534.4	15.7
0°-40°	2437.2	25.0
0°-60°	4057.7	41.6
0°-90°	4911.3	50.4
90°-120°	1048.1	10.8
90°-150°	3580.4	36.7
90°-180°	4834.0	49.6
0°-180°	9745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2078	2078	2078	2078	2078	
5°	2075	2068	2051	2067	2064	197
15°	1973	1963	1930	1929	1914	556
25°	1789	1766	1707	1687	1670	823
35°	1541	1503	1433	1387	1365	965
45°	1262	1216	1130	1067	1044	973
55°	957	907	819	749	723	856
65°	648	595	512	449	425	642
75°	345	298	232	198	187	365
85°	86	58	50	49	47	95
90°	1	10	19	24	28	8
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°	2077.8	2077.8	2077.8	2077.8	2077.8
2.5°	2082.5	2077.8	2062.1	2077.8	2076.2
5°	2074.6	2068.3	2051.1	2066.8	2063.6
7.5°	2058.9	2052.6	2032.2	2044.8	2041.7
10°	2035.4	2030.7	2008.7	2013.4	2008.7
12.5°	2008.7	2002.4	1971.0	1974.2	1966.3
15°	1972.6	1963.2	1930.2	1928.7	1914.5
17.5°	1935.0	1920.8	1881.6	1873.7	1862.8
20°	1889.4	1873.7	1823.5	1815.7	1801.6
22.5°	1839.2	1823.5	1770.2	1752.9	1741.9
25°	1789.0	1765.5	1707.4	1687.0	1669.7
27.5°	1732.5	1704.3	1643.1	1616.4	1599.1
30°	1669.7	1639.9	1574.0	1537.9	1523.8
32.5°	1608.5	1572.4	1505.0	1464.2	1445.3
35°	1541.1	1503.4	1432.8	1387.3	1365.3
37.5°	1476.7	1431.2	1359.0	1305.7	1283.7
40°	1407.7	1360.6	1285.3	1225.6	1206.8
42.5°	1335.5	1286.8	1208.4	1151.9	1122.1
45°	1261.7	1216.2	1129.9	1067.1	1043.6
47.5°	1184.8	1137.7	1051.4	987.1	960.4
50°	1112.6	1060.8	971.4	905.5	881.9
52.5°	1034.2	980.8	897.6	825.5	801.9
55°	957.3	907.1	819.2	748.6	723.4
57.5°	878.8	825.5	740.7	671.7	649.7
60°	803.5	748.6	663.8	594.8	571.2
62.5°	723.4	671.7	585.3	522.6	499.0
65°	648.1	594.8	511.6	448.8	425.3
67.5°	572.8	519.4	439.4	379.8	360.9
70°	495.9	442.5	364.1	315.4	296.6
72.5°	420.6	368.8	296.6	252.7	241.7
75°	345.2	298.2	232.3	197.7	186.7
77.5°	268.4	230.7	175.8	149.1	139.7
80°	204.0	166.3	122.4	108.3	105.1
82.5°	141.2	108.3	81.6	76.9	75.3
85°	86.3	58.1	50.2	48.6	47.1
87.5°	36.1	25.1	23.5	23.5	22.0
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)