

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: P1027577

Luminaire Tested: S125DIP-B1270D1270UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027577
REPORT IS A COMBINATION OF REPORTS P1001585 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1270D1270UB27-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

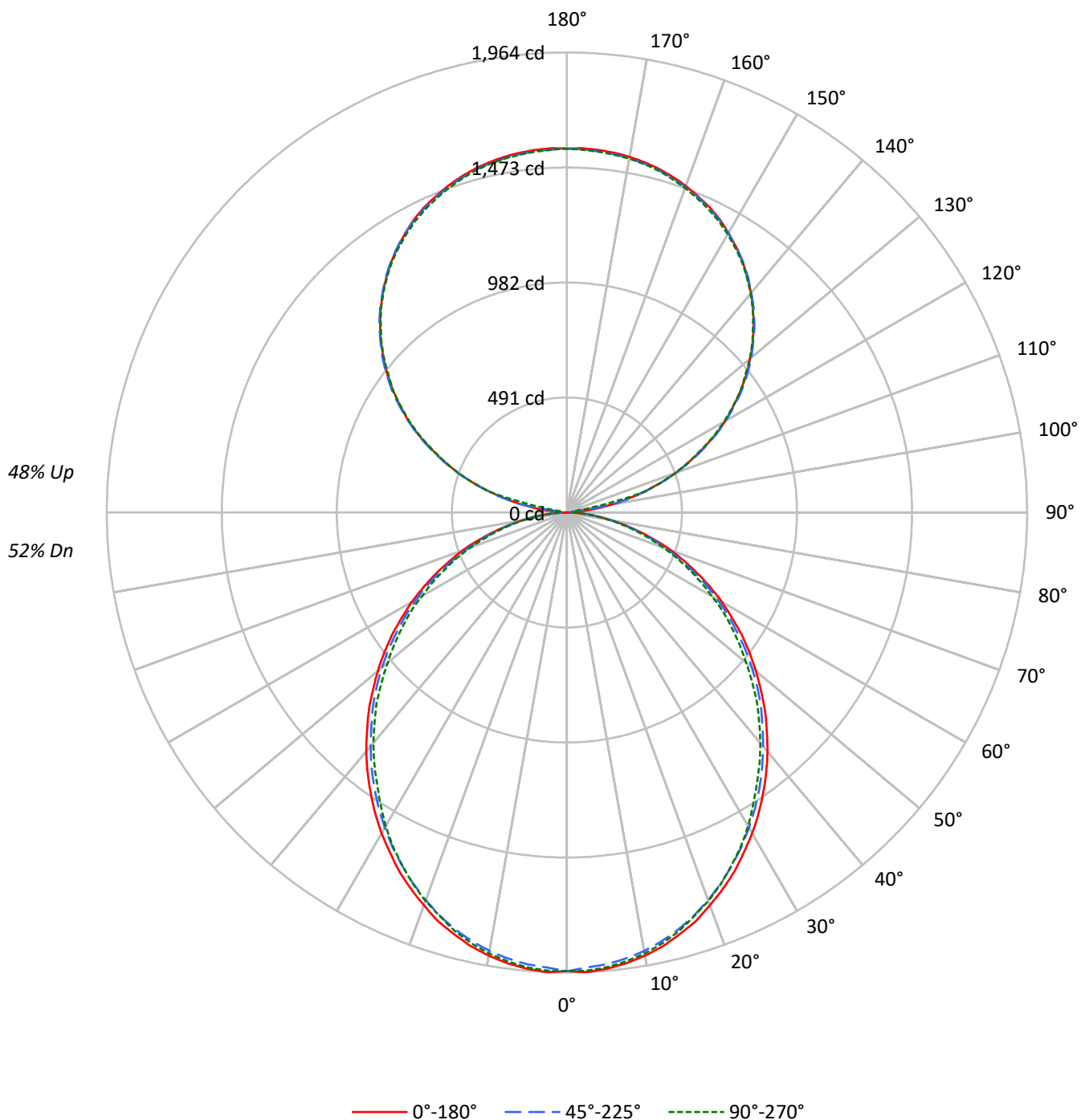
Lumens per Lamp: N/A
Luminaire Lumens: 9870.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1027577

CATALOG NUMBER: S125DIP-B1270D1270UB27-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1027577

CATALOG NUMBER: S125DIP-B1270D1270UB27-4F0-XX-W2A-F

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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58
1	98	94	90	86	91	87	83	80	74	71	69	62	60	59	51	50	49
2	89	82	76	70	82	76	70	66	65	61	57	54	51	49	45	43	41
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	40	37	35
4	74	64	56	50	69	59	52	47	51	45	41	43	39	35	35	32	30
5	68	57	48	42	63	53	45	40	45	40	35	38	34	31	32	29	26
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	26	23	20
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18
9	50	38	31	25	47	36	29	24	31	25	22	27	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	19	25	20	17	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12544	12544	12544
5°	12545	12253	12277
10°	12442	11972	11935
15°	12278	11637	11532
20°	12057	11247	11070
25°	11820	10822	10576
30°	11534	10379	10055
35°	11228	9915	9471
40°	10913	9424	8952
45°	10571	8946	8400
50°	10195	8404	7757
55°	9823	7806	7166
60°	9380	7176	6479
65°	8848	6446	5768
70°	8309	5607	4947
75°	7400	4617	4000
80°	6308	3449	2942
85°	4871	2039	1622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10571 cd/sqm

TEST NUMBER: P1027577

CATALOG NUMBER: S125DIP-B1270D1270UB27-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	1.9
10°-20°	521.9	5.3
20°-30°	770.4	7.8
30°-40°	898.9	9.1
40°-50°	902.8	9.1
50°-60°	792.5	8.0
60°-70°	590.3	6.0
70°-80°	337.1	3.4
80°-90°	99.6	1.0
90°-100°	52.7	0.5
100°-110°	350.6	3.6
110°-120°	631.3	6.4
120°-130°	810.4	8.2
130°-140°	871.6	8.8
140°-150°	818.0	8.3
150°-160°	661.7	6.7
160°-170°	427.9	4.3
170°-180°	147.6	1.5
0°-30°	1477.1	15.0
0°-40°	2376.0	24.1
0°-60°	4071.3	41.2
0°-90°	5098.3	51.7
90°-120°	1034.6	10.5
90°-150°	3534.5	35.8
90°-180°	4772.0	48.3
0°-180°	9870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1958	1958	1958	1958	1958	
5°	1955	1952	1936	1950	1949	186
15°	1863	1859	1842	1850	1850	525
25°	1692	1684	1664	1667	1662	778
35°	1461	1454	1433	1425	1413	914
45°	1196	1190	1171	1152	1148	921
55°	911	906	884	870	860	813
65°	615	612	595	581	575	610
75°	327	324	316	311	305	348
85°	85	87	87	85	82	93
90°	1	10	18	24	28	9
95°	66	62	18	24	24	80
105°	338	343	343	343	342	359
115°	636	641	642	638	631	630
125°	904	912	912	907	904	807
135°	1127	1134	1132	1130	1123	869
145°	1307	1309	1309	1310	1304	817
155°	1439	1432	1435	1438	1429	663
165°	1519	1512	1513	1520	1511	429
175°	1553	1546	1548	1557	1546	148
180°	1553	1553	1553	1553	1553	

TEST NUMBER: P1027577

CATALOG NUMBER: S125DIP-B1270D1270UB27-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1957.9	1957.9	1957.9	1957.9	1957.9
2.5°	1964.1	1959.5	1944.0	1959.5	1957.9
5°	1954.8	1951.7	1936.2	1950.2	1948.6
7.5°	1940.9	1937.8	1920.8	1934.7	1933.1
10°	1920.8	1917.7	1900.6	1913.0	1911.5
12.5°	1896.0	1889.8	1874.3	1883.6	1883.6
15°	1863.4	1858.8	1841.8	1849.5	1849.5
17.5°	1829.4	1821.6	1804.6	1813.9	1806.1
20°	1784.4	1781.3	1761.2	1772.0	1764.3
22.5°	1739.5	1733.3	1714.7	1720.9	1716.3
25°	1691.5	1683.8	1663.6	1666.7	1662.1
27.5°	1635.7	1631.1	1611.0	1612.5	1607.9
30°	1581.5	1576.9	1553.6	1550.5	1545.9
32.5°	1522.7	1514.9	1494.8	1488.6	1479.3
35°	1460.7	1454.5	1432.8	1425.1	1412.7
37.5°	1397.2	1389.4	1369.3	1358.5	1350.7
40°	1332.1	1324.4	1302.7	1288.8	1284.1
42.5°	1262.4	1256.2	1234.5	1222.2	1214.4
45°	1195.8	1189.6	1171.0	1152.5	1147.8
47.5°	1123.0	1124.6	1101.3	1082.7	1071.9
50°	1053.3	1048.7	1030.1	1009.9	999.1
52.5°	982.1	979.0	958.8	941.8	929.4
55°	910.8	906.2	884.5	870.5	859.7
57.5°	834.9	833.4	814.8	796.2	791.5
60°	763.7	757.5	740.4	724.9	714.1
62.5°	689.3	684.7	670.7	653.7	645.9
65°	614.9	611.9	594.8	580.9	574.7
67.5°	542.1	536.0	523.6	511.2	508.1
70°	474.0	466.2	452.3	443.0	436.8
72.5°	399.6	395.0	387.2	376.4	370.2
75°	326.8	323.7	316.0	311.3	305.2
77.5°	258.7	257.1	252.5	249.4	244.7
80°	195.2	195.2	192.1	190.5	187.4
82.5°	139.4	136.3	136.3	133.2	133.2
85°	85.2	86.7	86.7	85.2	82.1
87.5°	41.8	41.8	40.3	40.3	37.2
90°	1.2	10.4	18.4	24.2	27.6
92.5°	21.9	11.5	18.4	24.2	25.3
95°	65.6	62.2	18.4	24.2	24.2
97.5°	123.2	130.1	20.7	23.0	24.2
100°	192.3	195.8	200.4	28.8	24.2
102.5°	262.5	267.2	269.5	271.8	175.0
105°	338.5	343.2	343.2	343.2	342.0
107.5°	416.8	416.8	419.2	420.3	415.7
110°	492.8	492.8	495.2	491.7	492.8

TEST NUMBER: P1027577

CATALOG NUMBER: S125DIP-B1270D1270UB27-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	564.2	567.7	568.8	564.2	561.9
115°	635.6	641.4	642.5	637.9	631.0
117.5°	710.5	710.5	715.1	708.2	705.9
120°	779.6	778.4	781.9	779.6	773.8
122.5°	840.6	846.4	847.5	845.2	838.3
125°	903.9	912.0	912.0	907.4	903.9
127.5°	965.0	970.7	969.6	967.3	958.1
130°	1020.2	1026.0	1027.2	1023.7	1017.9
132.5°	1075.5	1082.4	1079.0	1079.0	1073.2
135°	1127.3	1134.2	1131.9	1129.6	1122.7
137.5°	1175.7	1182.6	1180.3	1180.3	1174.5
140°	1222.9	1225.2	1224.1	1226.4	1219.5
142.5°	1265.5	1266.7	1269.0	1269.0	1262.1
145°	1307.0	1309.3	1309.3	1310.4	1303.5
147.5°	1343.8	1343.8	1345.0	1346.1	1338.1
150°	1378.4	1376.1	1378.4	1380.7	1371.5
152.5°	1411.8	1406.0	1408.3	1410.6	1402.5
155°	1439.4	1432.5	1434.8	1438.2	1429.0
157.5°	1461.3	1457.8	1457.8	1461.3	1452.1
160°	1484.3	1477.4	1478.5	1483.2	1473.9
162.5°	1502.7	1495.8	1497.0	1503.9	1493.5
165°	1518.8	1511.9	1513.1	1520.0	1510.8
167.5°	1531.5	1524.6	1525.8	1533.8	1523.5
170°	1541.9	1533.8	1535.0	1544.2	1533.8
172.5°	1548.8	1540.7	1543.0	1551.1	1540.7
175°	1553.4	1546.5	1547.6	1556.8	1546.5
177.5°	1556.8	1549.9	1551.1	1559.2	1549.9
180°	1553.4	1553.4	1553.4	1553.4	1553.4

(END OF REPORT)