

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: P1025080

Luminaire Tested: S124DIP-B1195D1205UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025080
REPORT IS A COMBINATION OF REPORTS P995485 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B1195D1205UB27-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

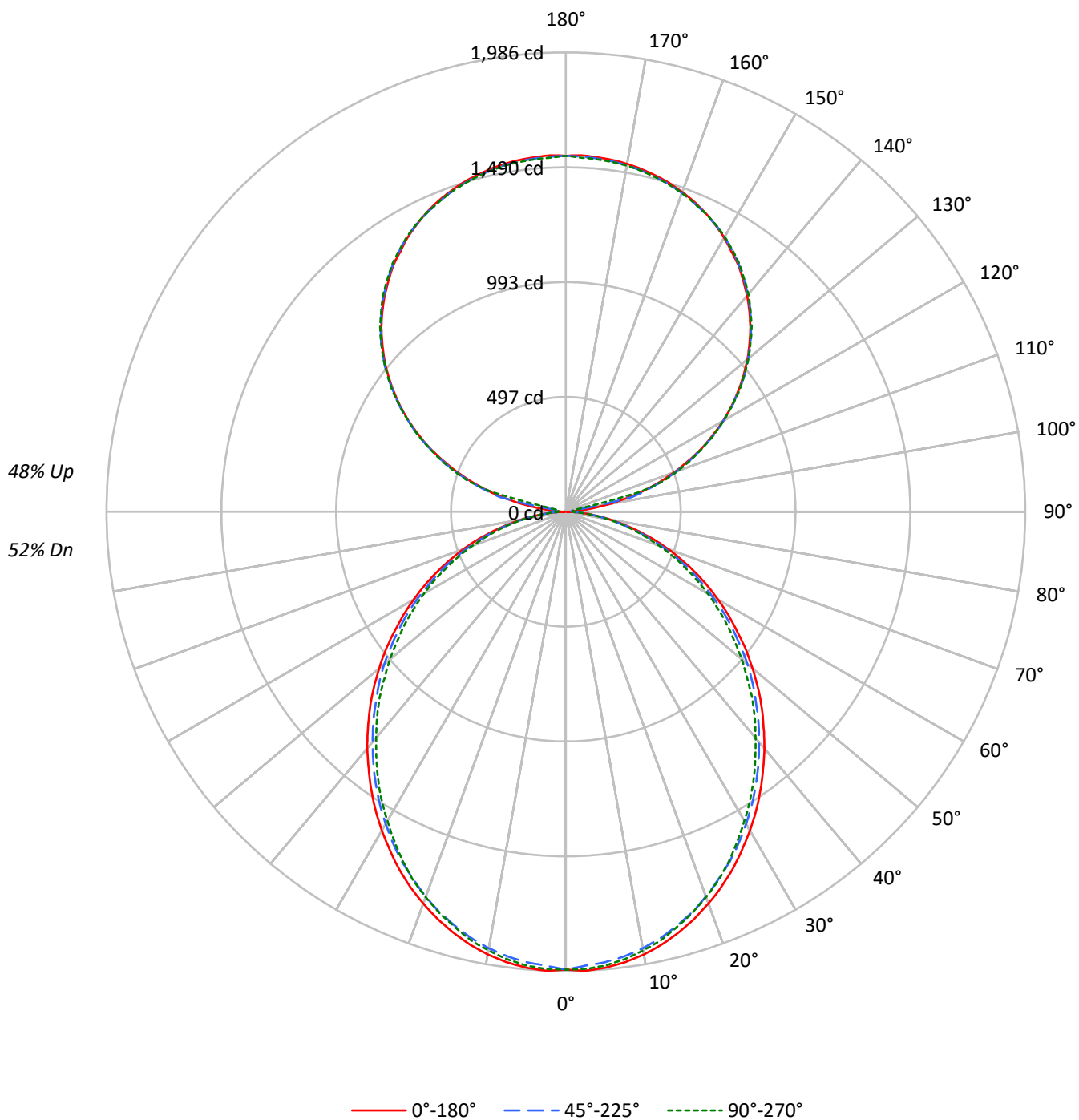
Lumens per Lamp: N/A
Luminaire Lumens: 9848.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	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	71	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	75	64	56	50	69	59	52	47	51	45	41	43	39	35	35	32	30
5	68	57	49	43	63	53	46	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	26	47	36	29	24	31	26	22	27	22	19	22	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16146	16146	16146
5°	16159	15681	15700
10°	16022	15246	15139
15°	15792	14729	14506
20°	15499	14169	13850
25°	15168	13577	13145
30°	14770	12938	12371
35°	14357	12282	11622
40°	13928	11578	10826
45°	13476	10871	10081
50°	12977	10186	9257
55°	12435	9386	8438
60°	11879	8510	7585
65°	11244	7605	6624
70°	10512	6515	5593
75°	9418	5252	4480
80°	8024	3797	3151
85°	6236	2114	1696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13476 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	1.9
10°-20°	525.8	5.3
20°-30°	773.8	7.9
30°-40°	899.5	9.1
40°-50°	899.4	9.1
50°-60°	786.6	8.0
60°-70°	584.0	5.9
70°-80°	331.4	3.4
80°-90°	98.1	1.0
90°-100°	51.1	0.5
100°-110°	336.5	3.4
110°-120°	642.5	6.5
120°-130°	815.7	8.3
130°-140°	872.6	8.9
140°-150°	815.9	8.3
150°-160°	658.0	6.7
160°-170°	424.3	4.3
170°-180°	146.2	1.5
0°-30°	1486.2	15.1
0°-40°	2385.7	24.2
0°-60°	4071.7	41.3
0°-90°	5085.2	51.6
90°-120°	1030.1	10.5
90°-150°	3534.3	35.9
90°-180°	4763.0	48.4
0°-180°	9848.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1980	1980	1980	1980	1980	
5°	1978	1972	1955	1972	1969	188
15°	1883	1877	1853	1863	1858	531
25°	1706	1694	1672	1674	1667	785
35°	1468	1456	1434	1423	1415	918
45°	1198	1187	1161	1144	1139	923
55°	906	901	879	860	850	811
65°	614	606	590	574	566	608
75°	327	319	311	305	303	347
85°	86	86	82	82	81	92
90°	4	16	25	32	34	9
95°	63	24	25	32	33	78
105°	346	353	359	370	328	363
115°	647	650	649	652	652	637
125°	910	914	912	915	916	812
135°	1128	1127	1132	1134	1136	869
145°	1301	1304	1304	1306	1308	813
155°	1426	1428	1424	1429	1425	658
165°	1505	1499	1499	1508	1498	425
175°	1539	1532	1533	1544	1530	147
180°	1539	1539	1539	1539	1539	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1980.0	1980.0	1980.0	1980.0	1980.0
2.5°	1986.3	1981.6	1964.1	1980.0	1978.4
5°	1978.4	1972.0	1954.6	1972.0	1968.9
7.5°	1964.1	1957.8	1938.7	1953.0	1951.4
10°	1943.5	1937.1	1916.5	1929.2	1926.0
12.5°	1916.5	1910.2	1888.0	1902.2	1897.5
15°	1883.2	1876.9	1853.1	1862.6	1857.8
17.5°	1845.1	1837.2	1815.0	1821.3	1818.2
20°	1802.3	1794.4	1770.6	1775.3	1772.1
22.5°	1756.3	1745.2	1721.4	1730.9	1724.5
25°	1705.5	1694.4	1672.2	1673.8	1667.4
27.5°	1648.4	1637.3	1616.7	1613.5	1605.6
30°	1591.3	1578.6	1558.0	1551.6	1543.7
32.5°	1531.0	1519.9	1497.7	1489.7	1481.8
35°	1467.5	1456.4	1434.2	1423.1	1415.2
37.5°	1400.9	1391.4	1367.6	1356.5	1345.4
40°	1335.9	1323.2	1299.4	1283.5	1275.6
42.5°	1266.0	1259.7	1232.7	1213.7	1208.9
45°	1197.8	1186.7	1161.3	1143.9	1139.1
47.5°	1126.4	1118.5	1094.7	1075.7	1063.0
50°	1053.4	1047.1	1024.9	1002.7	993.2
52.5°	982.1	974.1	950.3	931.3	918.6
55°	905.9	901.1	878.9	859.9	850.4
57.5°	834.5	829.8	807.5	788.5	779.0
60°	759.9	752.0	731.4	717.1	709.2
62.5°	687.0	680.6	658.4	645.7	637.8
65°	614.0	606.1	590.2	574.3	566.4
67.5°	539.4	533.1	517.2	501.3	499.8
70°	471.2	460.1	447.4	434.7	429.9
72.5°	398.2	387.1	377.6	368.1	363.3
75°	326.8	318.9	311.0	304.6	303.0
77.5°	257.0	253.8	245.9	244.3	239.6
80°	195.1	190.4	187.2	184.0	182.4
82.5°	134.9	133.3	133.3	131.7	130.1
85°	85.7	85.7	82.5	82.5	80.9
87.5°	41.2	39.7	38.1	38.1	38.1
90°	3.5	16.1	25.3	32.2	34.5
92.5°	17.3	15.0	24.2	31.1	31.1
95°	63.3	24.2	25.3	32.2	33.4
97.5°	120.9	146.2	25.3	31.1	32.2
100°	188.8	209.5	50.7	31.1	32.2
102.5°	264.8	278.6	292.4	33.4	33.4
105°	346.5	353.4	359.2	369.5	328.1
107.5°	421.4	424.8	432.9	438.6	443.2
110°	497.3	500.8	507.7	510.0	513.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	571.0	577.9	580.2	579.1	583.7
115°	647.0	650.4	649.3	651.6	651.6
117.5°	714.9	719.5	723.0	721.8	721.8
120°	784.0	788.6	787.4	789.7	787.4
122.5°	848.5	850.8	853.1	854.2	851.9
125°	909.5	914.1	911.8	915.2	916.4
127.5°	968.2	969.3	975.1	973.9	972.8
130°	1024.6	1025.7	1029.2	1030.4	1030.4
132.5°	1076.4	1078.7	1083.3	1084.5	1083.3
135°	1128.2	1127.1	1131.7	1134.0	1136.3
137.5°	1174.3	1174.3	1180.0	1182.3	1181.2
140°	1219.2	1221.5	1223.8	1227.2	1228.4
142.5°	1259.4	1264.1	1265.2	1267.5	1267.5
145°	1300.9	1304.3	1304.3	1305.5	1307.8
147.5°	1333.1	1340.0	1338.9	1340.0	1341.2
150°	1368.8	1373.4	1372.3	1372.3	1373.4
152.5°	1398.7	1402.2	1399.9	1402.2	1401.1
155°	1426.4	1427.5	1424.1	1428.7	1425.2
157.5°	1450.6	1450.6	1445.9	1451.7	1445.9
160°	1471.3	1467.8	1466.7	1473.6	1466.7
162.5°	1489.7	1485.1	1483.9	1490.8	1482.8
165°	1504.7	1498.9	1498.9	1508.1	1497.8
167.5°	1517.3	1511.6	1510.4	1520.8	1509.3
170°	1527.7	1520.8	1521.9	1531.1	1519.6
172.5°	1534.6	1527.7	1528.8	1538.0	1525.4
175°	1539.2	1532.3	1533.4	1543.8	1530.0
177.5°	1542.7	1534.6	1536.9	1546.1	1532.3
180°	1539.2	1539.2	1539.2	1539.2	1539.2

(END OF REPORT)