

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: P1000589

Luminaire Tested: SA4XXDIP-B1020D1205UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000589
REPORT IS A COMBINATION OF REPORTS P995199 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1020D1205UB2750-4F0-XX-W2A-F_3000K
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

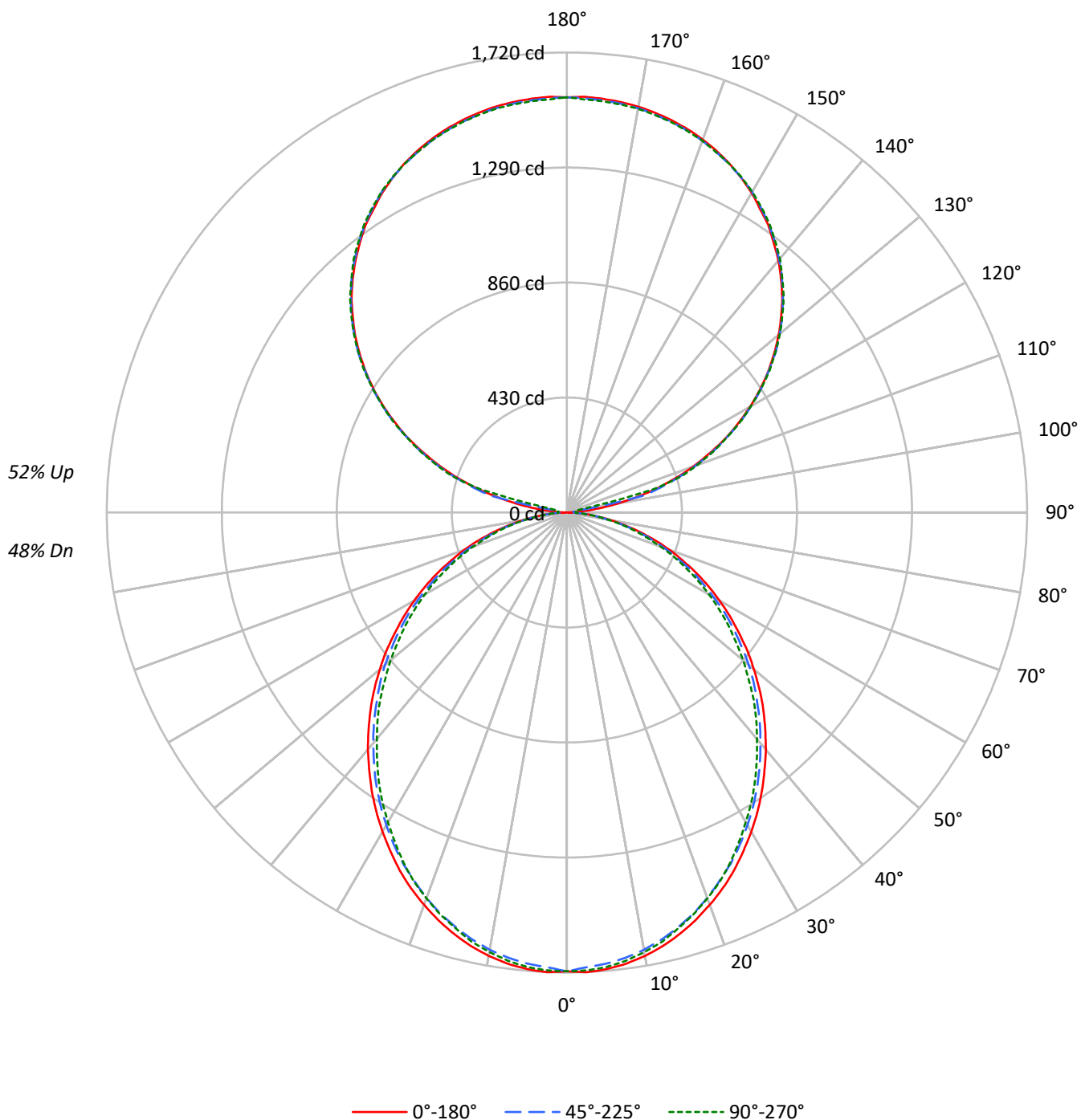
Lumens per Lamp: N/A
Luminaire Lumens: 9209.0 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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: P1000589

CATALOG NUMBER: SA4XXDIP-B1020D1205UB2750-4F0-XX-W2A-F_3000K

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	98	98	98	98	82	82	82	68	68	68	54	54	54
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	38
3	81	71	64	58	74	66	59	54	56	51	47	46	43	40	37	35	33
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25
6	62	50	42	36	57	47	40	34	40	34	30	33	29	26	27	24	22
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16
10	47	35	27	23	43	32	26	21	28	23	19	24	19	16	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13985	13985	13985
5°	13997	13583	13599
10°	13878	13206	13113
15°	13679	12758	12565
20°	13425	12272	11997
25°	13139	11760	11386
30°	12794	11206	10715
35°	12437	10639	10067
40°	12064	10029	9377
45°	11673	9416	8733
50°	11241	8824	8018
55°	10771	8130	7309
60°	10291	7371	6570
65°	9739	6587	5738
70°	9105	5643	4845
75°	8158	4550	3881
80°	6951	3290	2729
85°	5399	1832	1469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11673 cd/sqm

TEST NUMBER: P1000589

CATALOG NUMBER: SA4XXDIP-B1020D1205UB2750-4F0-XX-W2A-F_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.6	1.8
10°-20°	455.4	4.9
20°-30°	670.3	7.3
30°-40°	779.1	8.5
40°-50°	779.0	8.5
50°-60°	681.4	7.4
60°-70°	505.9	5.5
70°-80°	287.0	3.1
80°-90°	85.4	0.9
90°-100°	51.5	0.6
100°-110°	339.4	3.7
110°-120°	648.0	7.0
120°-130°	822.7	8.9
130°-140°	880.1	9.6
140°-150°	823.0	8.9
150°-160°	663.6	7.2
160°-170°	428.0	4.6
170°-180°	147.5	1.6
0°-30°	1287.3	14.0
0°-40°	2066.5	22.4
0°-60°	3526.9	38.3
0°-90°	4405.2	47.8
90°-120°	1039.0	11.3
90°-150°	3564.7	38.7
90°-180°	4804.0	52.2
0°-180°	9209.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1714	1708	1693	1708	1705	163
15°	1631	1626	1605	1613	1609	460
25°	1477	1468	1448	1450	1444	680
35°	1271	1262	1242	1233	1226	795
45°	1038	1028	1006	991	987	800
55°	785	781	761	745	737	703
65°	532	525	511	498	491	526
75°	283	276	269	264	262	300
85°	74	74	72	72	70	80
90°	4	16	26	32	35	8
95°	64	24	26	32	34	79
105°	350	356	362	373	331	366
115°	653	656	655	657	657	642
125°	917	922	920	923	924	819
135°	1138	1137	1141	1144	1146	877
145°	1312	1316	1316	1317	1319	820
155°	1439	1440	1436	1441	1438	663
165°	1518	1512	1512	1521	1511	429
175°	1552	1546	1547	1557	1543	148
180°	1552	1552	1552	1552	1552	

TEST NUMBER: P1000589

CATALOG NUMBER: SA4XXDIP-B1020D1205UB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1715.0	1715.0	1715.0	1715.0	1715.0
2.5°	1720.5	1716.4	1701.3	1715.0	1713.7
5°	1713.7	1708.2	1693.1	1708.2	1705.4
7.5°	1701.3	1695.8	1679.3	1691.7	1690.3
10°	1683.4	1677.9	1660.1	1671.1	1668.3
12.5°	1660.1	1654.6	1635.3	1647.7	1643.6
15°	1631.2	1625.7	1605.1	1613.4	1609.2
17.5°	1598.2	1591.4	1572.1	1577.6	1574.9
20°	1561.1	1554.3	1533.6	1537.8	1535.0
22.5°	1521.3	1511.7	1491.0	1499.3	1493.8
25°	1477.3	1467.7	1448.4	1449.8	1444.3
27.5°	1427.8	1418.2	1400.3	1397.6	1390.7
30°	1378.4	1367.4	1349.5	1344.0	1337.1
32.5°	1326.1	1316.5	1297.3	1290.4	1283.5
35°	1271.2	1261.5	1242.3	1232.7	1225.8
37.5°	1213.5	1205.2	1184.6	1175.0	1165.4
40°	1157.1	1146.1	1125.5	1111.8	1104.9
42.5°	1096.6	1091.1	1067.8	1051.3	1047.2
45°	1037.5	1027.9	1005.9	990.8	986.7
47.5°	975.7	968.8	948.2	931.7	920.7
50°	912.5	907.0	887.8	868.5	860.3
52.5°	850.7	843.8	823.2	806.7	795.7
55°	784.7	780.6	761.3	744.8	736.6
57.5°	722.8	718.7	699.5	683.0	674.7
60°	658.3	651.4	633.5	621.2	614.3
62.5°	595.0	589.5	570.3	559.3	552.4
65°	531.8	525.0	511.2	497.5	490.6
67.5°	467.2	461.7	448.0	434.3	432.9
70°	408.1	398.5	387.5	376.5	372.4
72.5°	344.9	335.3	327.1	318.8	314.7
75°	283.1	276.2	269.4	263.9	262.5
77.5°	222.6	219.9	213.0	211.6	207.5
80°	169.0	164.9	162.2	159.4	158.0
82.5°	116.8	115.4	115.4	114.1	112.7
85°	74.2	74.2	71.5	71.5	70.1
87.5°	35.7	34.4	33.0	33.0	33.0
90°	3.5	16.3	25.5	32.5	34.8
92.5°	17.4	15.1	24.4	31.4	31.4
95°	63.9	24.4	25.5	32.5	33.7
97.5°	121.9	147.5	25.5	31.4	32.5
100°	190.4	211.3	51.1	31.4	32.5
102.5°	267.1	281.0	294.9	33.7	33.7
105°	349.5	356.5	362.3	372.7	330.9
107.5°	425.0	428.5	436.6	442.4	447.0
110°	501.6	505.1	512.1	514.4	517.9

TEST NUMBER: P1000589

CATALOG NUMBER: SA4XXDIP-B1020D1205UB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	575.9	582.9	585.2	584.1	588.7
115°	652.6	656.0	654.9	657.2	657.2
117.5°	721.1	725.7	729.2	728.0	728.0
120°	790.7	795.4	794.2	796.5	794.2
122.5°	855.8	858.1	860.4	861.6	859.2
125°	917.3	921.9	919.6	923.1	924.3
127.5°	976.5	977.7	983.5	982.3	981.2
130°	1033.4	1034.6	1038.1	1039.2	1039.2
132.5°	1085.7	1088.0	1092.6	1093.8	1092.6
135°	1137.9	1136.8	1141.4	1143.7	1146.0
137.5°	1184.4	1184.4	1190.2	1192.5	1191.3
140°	1229.6	1232.0	1234.3	1237.8	1238.9
142.5°	1270.3	1274.9	1276.1	1278.4	1278.4
145°	1312.1	1315.6	1315.6	1316.7	1319.1
147.5°	1344.6	1351.6	1350.4	1351.6	1352.7
150°	1380.6	1385.2	1384.1	1384.1	1385.2
152.5°	1410.8	1414.3	1411.9	1414.3	1413.1
155°	1438.6	1439.8	1436.3	1441.0	1437.5
157.5°	1463.0	1463.0	1458.4	1464.2	1458.4
160°	1483.9	1480.4	1479.3	1486.3	1479.3
162.5°	1502.5	1497.9	1496.7	1503.7	1495.5
165°	1517.6	1511.8	1511.8	1521.1	1510.6
167.5°	1530.4	1524.6	1523.4	1533.9	1522.2
170°	1540.8	1533.9	1535.0	1544.3	1532.7
172.5°	1547.8	1540.8	1542.0	1551.3	1538.5
175°	1552.4	1545.5	1546.6	1557.1	1543.1
177.5°	1555.9	1547.8	1550.1	1559.4	1545.5
180°	1552.4	1552.4	1552.4	1552.4	1552.4

(END OF REPORT)