

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: P1000821

Luminaire Tested: SA4XXDIP-B1195D1035UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000821
REPORT IS A COMBINATION OF REPORTS P995434 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D1035UB2750-4F0-XX-W2A-D_3000K
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

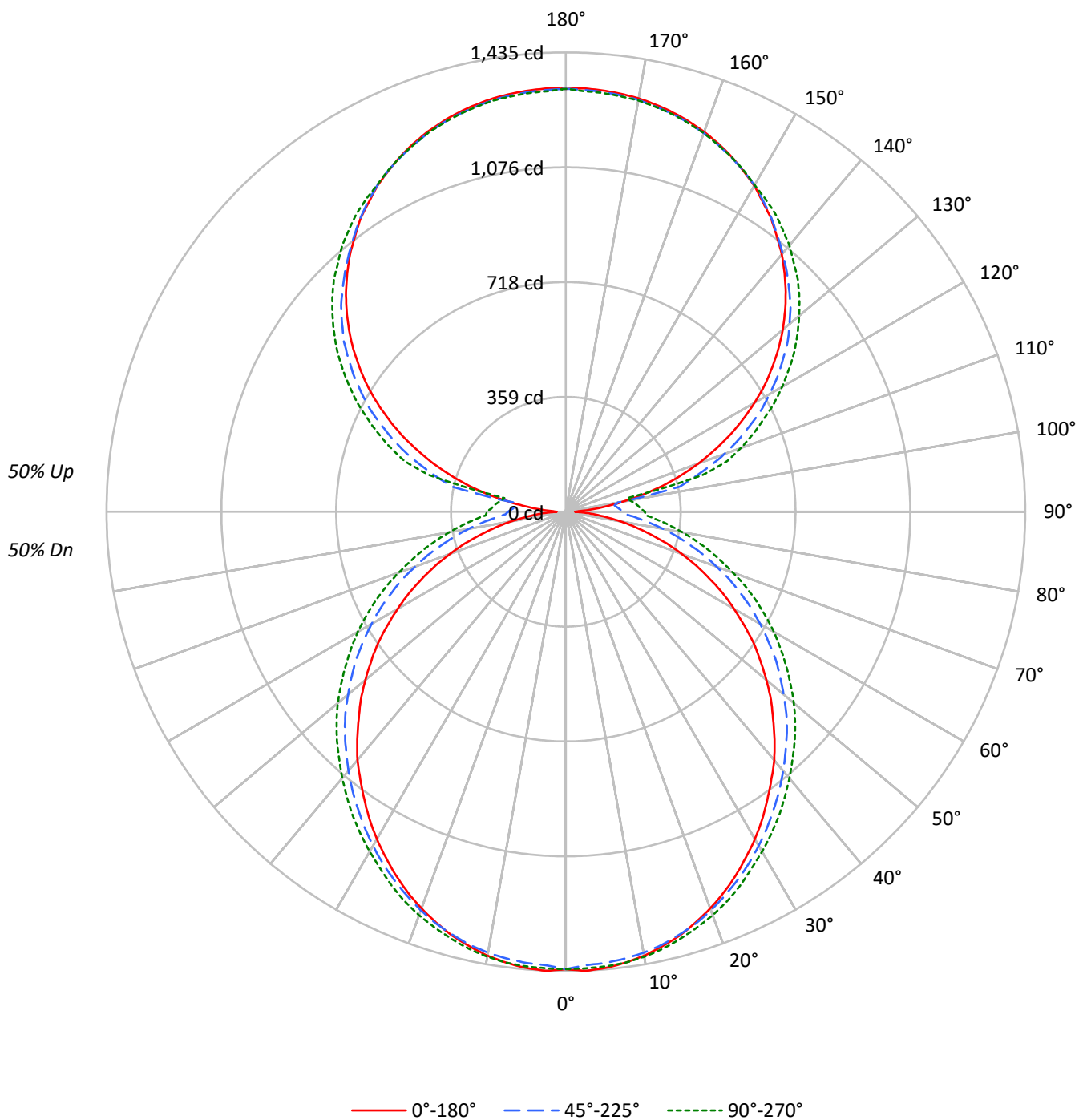
Lumens per Lamp: N/A
Luminaire Lumens: 8963.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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: P1000821

CATALOG NUMBER: SA4XXDIP-B1195D1035UB2750-4F0-XX-W2A-D_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1000821

CATALOG NUMBER: SA4XXDIP-B1195D1035UB2750-4F0-XX-W2A-D_3000K

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	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	72	69	66	59	58	56	48	47	46
2	88	80	73	68	81	74	68	63	62	58	54	52	48	46	42	40	38
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	37	34	32
4	73	62	53	47	67	57	50	44	48	43	38	40	36	32	33	29	27
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23
6	61	49	41	34	56	45	38	32	39	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16
9	49	36	29	24	45	34	27	22	29	23	20	25	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11653	11653	11653
5°	11685	11349	11370
10°	11609	11126	11094
15°	11501	10875	10783
20°	11339	10603	10481
25°	11158	10303	10156
30°	10962	10006	9823
35°	10739	9702	9528
40°	10561	9411	9221
45°	10298	9137	8950
50°	10073	8827	8665
55°	9841	8527	8336
60°	9481	8155	8027
65°	9085	7753	7654
70°	8605	7294	7225
75°	7931	6784	6815
80°	7173	6263	6384
85°	6171	5740	6037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10298 cd/sqm

TEST NUMBER: P1000821

CATALOG NUMBER: SA4XXDIP-B1195D1035UB2750-4F0-XX-W2A-D_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	1.5
10°-20°	387.9	4.3
20°-30°	586.6	6.5
30°-40°	709.6	7.9
40°-50°	750.2	8.4
50°-60°	706.0	7.9
60°-70°	585.9	6.5
70°-80°	411.1	4.6
80°-90°	234.5	2.6
90°-100°	181.8	2.0
100°-110°	391.0	4.4
110°-120°	620.1	6.9
120°-130°	738.8	8.2
130°-140°	765.7	8.5
140°-150°	703.7	7.9
150°-160°	564.8	6.3
160°-170°	364.2	4.1
170°-180°	125.5	1.4
0°-30°	1109.9	12.4
0°-40°	1819.6	20.3
0°-60°	3275.8	36.5
0°-90°	4507.3	50.3
90°-120°	1192.9	13.3
90°-150°	3401.0	37.9
90°-180°	4456.0	49.7
0°-180°	8963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1431	1426	1415	1427	1426	136
15°	1371	1373	1368	1383	1381	386
25°	1255	1264	1269	1287	1288	578
35°	1098	1117	1133	1155	1160	687
45°	915	946	976	1003	1011	707
55°	717	750	798	830	840	639
65°	496	547	602	642	654	492
75°	275	334	402	446	461	292
85°	85	152	224	272	288	88
90°	29	103	180	232	247	20
95°	75	94	161	210	226	84
105°	312	350	414	463	440	328
115°	565	582	632	670	681	557
125°	787	789	827	861	871	703
135°	972	971	986	1013	1025	749
145°	1118	1120	1120	1130	1139	699
155°	1224	1225	1222	1226	1223	565
165°	1292	1287	1287	1294	1286	365
175°	1321	1315	1316	1325	1313	126
180°	1321	1321	1321	1321	1321	

TEST NUMBER: P1000821

CATALOG NUMBER: SA4XXDIP-B1195D1035UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.0	1429.0	1429.0	1429.0	1429.0
2.5°	1435.4	1430.6	1417.8	1429.0	1427.4
5°	1430.6	1425.8	1414.6	1427.4	1425.8
7.5°	1421.0	1417.8	1408.2	1422.6	1421.0
10°	1408.2	1406.6	1398.6	1413.0	1411.4
12.5°	1390.6	1390.6	1385.8	1398.6	1398.6
15°	1371.4	1373.0	1368.2	1382.6	1381.0
17.5°	1345.8	1350.6	1349.0	1363.4	1361.8
20°	1318.6	1323.4	1325.0	1341.0	1341.0
22.5°	1288.2	1294.6	1297.8	1313.8	1317.0
25°	1254.6	1264.2	1269.0	1286.6	1288.2
27.5°	1217.8	1232.2	1238.6	1254.6	1256.2
30°	1181.0	1193.8	1205.0	1222.6	1225.8
32.5°	1140.9	1157.0	1169.8	1190.6	1193.8
35°	1097.7	1116.9	1132.9	1155.4	1160.2
37.5°	1054.5	1076.9	1096.1	1118.5	1123.3
40°	1012.9	1033.7	1056.1	1080.1	1086.5
42.5°	964.9	988.9	1016.1	1043.3	1048.1
45°	915.3	945.7	976.1	1003.3	1011.3
47.5°	868.9	899.3	934.5	961.7	971.3
50°	817.7	852.9	888.1	920.1	929.7
52.5°	766.5	801.7	843.3	875.3	884.9
55°	716.9	750.5	798.5	830.5	840.1
57.5°	660.9	702.5	748.9	787.3	795.3
60°	606.5	648.1	700.9	737.7	750.5
62.5°	553.7	600.1	652.9	689.7	702.5
65°	496.1	547.3	601.7	641.7	654.5
67.5°	441.7	496.1	553.7	593.7	606.5
70°	385.7	440.1	500.9	544.1	555.3
72.5°	331.2	387.3	452.9	494.5	507.3
75°	275.2	334.4	401.7	446.5	460.9
77.5°	222.4	284.8	355.2	400.1	416.1
80°	174.4	238.4	308.8	356.8	369.6
82.5°	126.4	193.6	264.0	313.6	328.0
85°	84.8	152.0	224.0	272.0	288.0
87.5°	52.8	118.4	188.8	235.2	249.6
90°	28.6	103.4	180.1	232.5	247.2
92.5°	38.8	92.8	169.6	220.3	233.1
95°	75.2	94.4	160.9	210.1	225.5
97.5°	123.0	191.1	152.9	199.5	214.9
100°	179.7	239.0	165.1	191.5	203.7
102.5°	244.9	291.9	364.6	183.9	196.7
105°	311.8	349.8	413.9	462.8	440.0
107.5°	376.1	406.2	469.2	514.1	529.3
110°	439.7	465.1	527.0	565.8	581.5

TEST NUMBER: P1000821

CATALOG NUMBER: SA4XXDIP-B1195D1035UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	501.3	526.5	581.2	615.5	632.2
115°	565.0	582.3	632.5	669.7	680.9
117.5°	623.3	636.8	687.8	720.4	733.2
120°	681.0	689.7	735.1	769.1	779.9
122.5°	736.3	738.3	783.4	816.4	825.7
125°	787.1	789.4	827.4	860.8	871.4
127.5°	837.5	836.9	873.8	901.6	911.8
130°	884.3	883.7	912.2	942.0	951.6
132.5°	928.8	929.1	952.3	980.5	989.1
135°	971.6	970.6	985.8	1013.4	1024.9
137.5°	1011.1	1009.5	1020.9	1046.9	1053.9
140°	1049.7	1050.1	1053.6	1077.4	1086.4
142.5°	1082.7	1086.6	1086.0	1105.6	1112.0
145°	1118.2	1119.6	1119.6	1130.2	1138.6
147.5°	1145.9	1150.2	1149.3	1151.8	1159.2
150°	1176.6	1178.9	1177.9	1177.9	1178.9
152.5°	1200.6	1203.6	1201.6	1203.6	1202.6
155°	1224.4	1225.4	1222.4	1226.3	1223.4
157.5°	1245.1	1245.1	1241.2	1246.1	1241.2
160°	1262.9	1259.9	1258.9	1264.9	1258.9
162.5°	1278.7	1274.8	1273.8	1279.7	1272.8
165°	1291.6	1286.6	1286.6	1294.5	1285.6
167.5°	1302.4	1297.5	1296.5	1305.4	1295.5
170°	1311.3	1305.4	1306.4	1314.3	1304.4
172.5°	1317.3	1311.3	1312.3	1320.2	1309.3
175°	1321.2	1315.3	1316.3	1325.2	1313.3
177.5°	1324.2	1317.3	1319.2	1327.1	1315.3
180°	1321.2	1321.2	1321.2	1321.2	1321.2

(END OF REPORT)