

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: P1009438

Luminaire Tested: S122DIP-B865D1080UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009438
REPORT IS A COMBINATION OF REPORTS P984724 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D1080UB27-4F0-XX-W2A-F
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

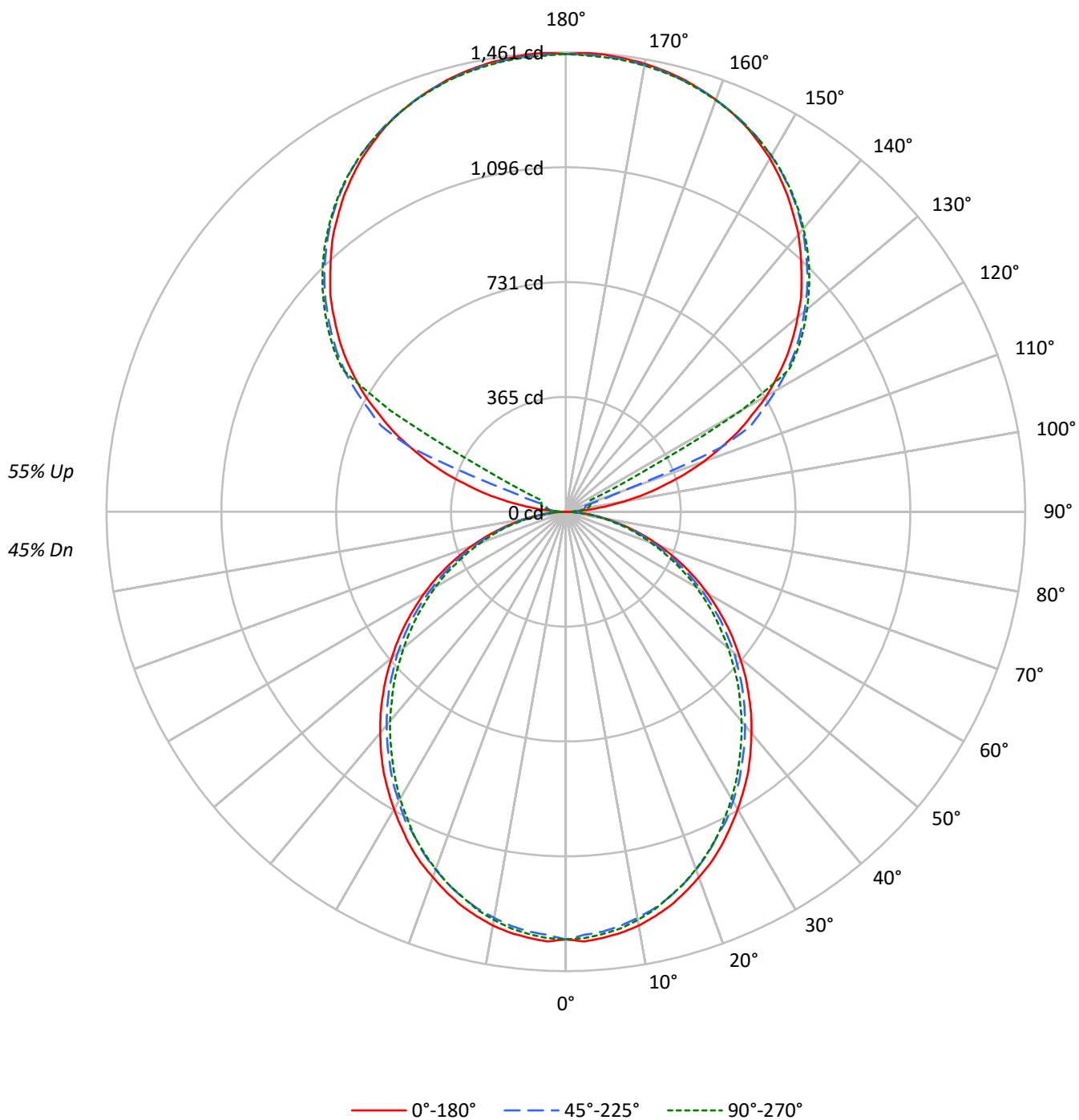
Lumens per Lamp: N/A
Luminaire Lumens: 7730.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1009438

CATALOG NUMBER: S122DIP-B865D1080UB27-4F0-XX-W2A-F

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	92	88	85	88	85	81	78	70	68	66	57	56	54	45	44	43
2	88	81	75	69	80	74	69	64	62	58	55	50	48	45	40	38	37
3	80	71	64	58	73	65	59	54	54	50	46	45	41	38	35	33	31
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	28	26	23
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16
9	49	37	30	25	45	35	28	23	29	24	21	25	21	18	20	17	15
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	19	16	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21528	21528	21528
5°	21563	20520	20374
10°	21386	19585	19195
15°	21074	18642	17956
20°	20651	17617	16783
25°	20229	16547	15611
30°	19697	15541	14381
35°	19197	14479	13172
40°	18579	13433	12031
45°	17963	12395	10911
50°	17292	11337	9750
55°	16587	10207	8649
60°	15794	8984	7505
65°	14924	7740	6302
70°	13819	6380	5090
75°	12290	4917	3930
80°	10443	3341	2529
85°	7571	1555	1077

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17963 cd/sqm

TEST NUMBER: P1009438

CATALOG NUMBER: S122DIP-B865D1080UB27-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	1.7
10°-20°	360.1	4.7
20°-30°	529.2	6.8
30°-40°	614.7	8.0
40°-50°	613.9	7.9
50°-60°	535.3	6.9
60°-70°	395.7	5.1
70°-80°	223.9	2.9
80°-90°	61.6	0.8
90°-100°	48.0	0.6
100°-110°	178.9	2.3
110°-120°	474.6	6.1
120°-130°	787.1	10.2
130°-140°	836.1	10.8
140°-150°	777.0	10.1
150°-160°	624.7	8.1
160°-170°	402.5	5.2
170°-180°	138.5	1.8
0°-30°	1017.4	13.2
0°-40°	1632.1	21.1
0°-60°	2781.3	36.0
0°-90°	3462.6	44.8
90°-120°	701.5	9.1
90°-150°	3101.6	40.1
90°-180°	4267.0	55.2
0°-180°	7730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1360	1355	1340	1351	1348	129
15°	1295	1287	1270	1275	1268	365
25°	1172	1161	1139	1142	1139	539
35°	1011	998	977	969	962	631
45°	822	813	794	779	774	635
55°	622	615	599	583	577	557
65°	420	412	399	387	380	415
75°	220	217	210	203	205	234
85°	54	52	51	47	46	60
90°	1	13	21	26	28	7
95°	68	34	41	46	45	81
105°	320	352	64	76	80	342
115°	606	624	650	162	86	596
125°	856	870	890	897	901	764
135°	1060	1076	1086	1096	1094	819
145°	1229	1228	1246	1253	1248	769
155°	1354	1344	1357	1363	1354	624
165°	1426	1420	1423	1430	1423	403
175°	1459	1451	1454	1461	1450	139
180°	1456	1456	1456	1456	1456	

TEST NUMBER: P1009438

CATALOG NUMBER: S122DIP-B865D1080UB27-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1360.0	1360.0	1360.0	1360.0	1360.0
2.5°	1367.8	1361.3	1346.9	1360.0	1357.4
5°	1360.0	1354.7	1340.4	1350.8	1348.2
7.5°	1350.8	1343.0	1328.6	1339.1	1336.4
10°	1336.4	1327.3	1311.6	1322.1	1318.1
12.5°	1316.8	1309.0	1293.3	1299.8	1297.2
15°	1294.6	1286.7	1269.7	1275.0	1268.4
17.5°	1267.1	1259.3	1242.3	1248.8	1242.3
20°	1237.1	1229.2	1210.9	1214.8	1209.6
22.5°	1207.0	1195.2	1178.2	1178.2	1175.6
25°	1171.7	1161.2	1139.0	1141.6	1139.0
27.5°	1132.4	1123.3	1106.3	1102.4	1095.8
30°	1093.2	1082.8	1063.1	1059.2	1054.0
32.5°	1051.4	1043.5	1022.6	1014.8	1009.5
35°	1010.8	997.8	976.8	969.0	962.4
37.5°	965.1	953.3	932.4	923.2	916.7
40°	918.0	907.5	886.6	874.8	869.6
42.5°	872.2	861.8	840.8	827.8	819.9
45°	822.5	813.4	793.8	779.4	774.1
47.5°	774.1	765.0	744.1	729.7	721.8
50°	723.1	716.6	698.3	680.0	673.5
52.5°	673.5	664.3	647.3	632.9	623.8
55°	622.5	614.6	598.9	583.2	576.7
57.5°	571.5	564.9	547.9	532.2	527.0
60°	520.5	515.2	496.9	482.5	478.6
62.5°	470.8	461.6	448.5	435.5	430.2
65°	419.8	411.9	398.8	387.1	380.5
67.5°	367.5	360.9	349.1	340.0	334.8
70°	319.1	313.8	302.1	292.9	287.7
72.5°	269.4	264.1	257.6	248.5	244.5
75°	219.7	217.1	210.5	202.7	205.3
77.5°	175.2	170.0	167.4	163.5	159.5
80°	130.8	129.5	126.8	122.9	120.3
82.5°	88.9	88.9	87.6	82.4	82.4
85°	53.6	52.3	51.0	47.1	45.8
87.5°	23.5	20.9	18.3	14.4	13.1
90°	1.1	12.6	21.1	26.3	28.4
92.5°	26.3	22.1	25.3	27.4	28.4
95°	68.5	33.7	41.1	46.3	45.3
97.5°	123.2	36.9	53.7	56.9	57.9
100°	186.4	42.1	60.0	68.5	70.6
102.5°	255.9	253.8	62.1	73.7	76.9
105°	320.2	351.8	64.3	75.8	80.0
107.5°	395.0	421.3	66.4	77.9	82.2
110°	466.6	488.7	184.3	79.0	83.2



TEST NUMBER: P1009438

CATALOG NUMBER: S122DIP-B865D1080UB27-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	534.0	553.0	535.1	81.1	84.3
115°	605.6	623.5	649.9	162.2	86.4
117.5°	667.8	688.9	706.8	556.1	280.2
120°	737.3	753.1	772.1	784.7	642.5
122.5°	796.3	813.1	834.2	840.5	841.6
125°	856.3	870.0	890.0	897.4	900.6
127.5°	911.1	925.8	941.6	952.2	953.2
130°	962.7	979.6	991.1	1002.7	1001.7
132.5°	1015.4	1029.1	1040.6	1050.1	1049.1
135°	1059.6	1076.5	1085.9	1096.5	1094.4
137.5°	1106.0	1118.6	1129.1	1139.7	1136.5
140°	1151.2	1159.7	1171.3	1180.7	1175.5
142.5°	1189.2	1196.5	1210.2	1218.7	1213.4
145°	1229.2	1228.1	1246.0	1253.4	1248.1
147.5°	1263.9	1260.8	1278.7	1284.0	1279.7
150°	1297.7	1290.3	1307.1	1313.5	1308.2
152.5°	1326.1	1317.7	1333.5	1339.8	1332.4
155°	1353.5	1344.0	1356.6	1363.0	1354.5
157.5°	1375.6	1367.2	1376.6	1384.0	1375.6
160°	1394.6	1388.2	1394.6	1400.9	1393.5
162.5°	1411.4	1405.1	1410.4	1417.7	1408.2
165°	1426.2	1419.8	1423.0	1430.4	1423.0
167.5°	1437.7	1431.4	1434.6	1442.0	1432.5
170°	1447.2	1440.9	1443.0	1450.4	1440.9
172.5°	1453.5	1447.2	1449.3	1456.7	1447.2
175°	1458.8	1451.4	1453.5	1460.9	1450.4
177.5°	1460.9	1453.5	1454.6	1462.0	1452.5
180°	1455.6	1455.6	1455.6	1455.6	1455.6

(END OF REPORT)