

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: P1009527

Luminaire Tested: S122DIP-B865D530UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009527
REPORT IS A COMBINATION OF REPORTS P984846 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D530UB27-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

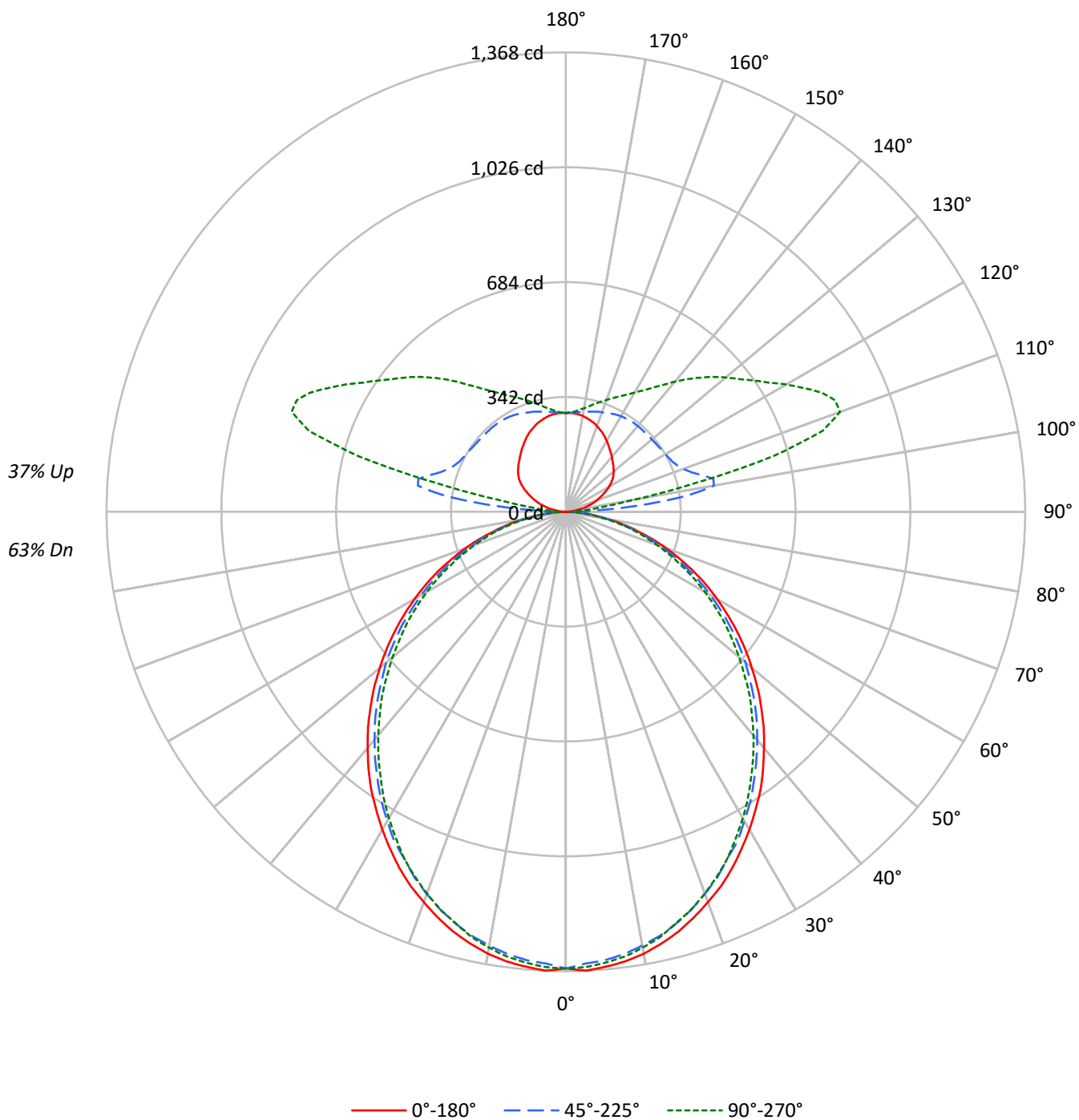
Lumens per Lamp: N/A
Luminaire Lumens: 5515.3 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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: P1009527

CATALOG NUMBER: S122DIP-B865D530UB27-4F0-XX-W2A-F4

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	110	110	110	110	103	103	103	103	90	90	90	79	79	79	68	68	68
1	101	96	92	89	94	90	87	84	79	77	74	69	67	66	60	59	57
2	92	84	78	73	86	79	74	69	70	65	62	61	58	55	53	50	48
3	84	74	66	60	78	70	63	58	61	56	52	54	50	46	47	44	41
4	77	66	57	51	72	62	54	49	55	49	44	48	43	40	42	38	35
5	70	58	50	44	66	55	48	42	49	43	38	43	38	35	38	34	31
6	65	53	44	38	61	50	42	37	44	38	33	39	34	30	34	30	27
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	31	27	24
8	56	43	35	30	52	41	34	29	37	31	26	33	28	24	29	25	22
9	52	40	32	27	49	38	30	26	34	28	24	30	25	22	27	23	20
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18

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: P1009527

CATALOG NUMBER: S122DIP-B865D530UB27-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	2.3
10°-20°	360.1	6.5
20°-30°	529.2	9.6
30°-40°	614.7	11.1
40°-50°	613.9	11.1
50°-60°	535.3	9.7
60°-70°	395.7	7.2
70°-80°	223.9	4.1
80°-90°	61.0	1.1
90°-100°	119.4	2.2
100°-110°	403.6	7.3
110°-120°	424.3	7.7
120°-130°	348.9	6.3
130°-140°	280.4	5.1
140°-150°	211.8	3.8
150°-160°	148.9	2.7
160°-170°	87.7	1.6
170°-180°	28.5	0.5
0°-30°	1017.4	18.4
0°-40°	1632.1	29.6
0°-60°	2781.3	50.4
0°-90°	3461.9	62.8
90°-120°	947.3	17.2
90°-150°	1788.4	32.4
90°-180°	2053.0	37.2
0°-180°	5515.3	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	8	19	18	19	5
95°	20	49	222	84	65	20
105°	69	104	420	750	638	73
115°	122	154	351	725	840	121
125°	170	201	338	587	681	151
135°	199	238	334	493	565	154
145°	228	262	332	412	451	143
155°	259	280	322	364	379	119
165°	282	291	309	327	332	80
175°	294	294	297	300	300	28
180°	294	294	294	294	294	

TEST NUMBER: P1009527

CATALOG NUMBER: S122DIP-B865D530UB27-4F0-XX-W2A-F4

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°	0.6	7.6	19.3	18.4	18.7
92.5°	8.5	26.9	87.2	40.2	34.6
95°	19.8	48.7	222.0	83.8	64.6
97.5°	29.5	64.2	361.9	168.2	108.2
100°	43.6	78.8	447.5	335.0	202.8
102.5°	56.6	91.8	450.3	566.4	395.3
105°	69.1	104.2	419.7	750.2	638.3
107.5°	82.7	116.6	391.4	816.8	802.0
110°	96.3	129.4	372.1	806.0	868.9

TEST NUMBER: P1009527

CATALOG NUMBER: S122DIP-B865D530UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	108.7	141.6	359.7	769.4	867.7
115°	121.8	153.8	351.2	724.7	840.0
117.5°	135.4	166.0	346.6	682.0	798.1
120°	147.8	177.9	342.7	643.7	757.8
122.5°	159.7	190.0	340.4	614.0	715.9
125°	169.9	201.0	337.6	587.0	681.4
127.5°	178.4	211.6	335.9	564.2	649.1
130°	185.8	220.9	334.7	540.9	622.5
132.5°	192.6	230.0	334.2	516.8	594.7
135°	199.4	237.9	333.6	493.4	564.7
137.5°	205.6	244.6	333.6	469.6	535.8
140°	213.0	251.0	333.0	448.6	505.8
142.5°	220.3	256.0	333.0	428.5	475.8
145°	227.7	261.6	331.9	412.0	450.9
147.5°	235.6	266.2	330.2	397.6	428.8
150°	243.6	270.7	328.5	385.2	409.5
152.5°	251.5	275.2	325.7	374.6	393.1
155°	258.8	279.6	322.3	364.5	378.9
157.5°	265.1	282.9	318.9	354.8	366.5
160°	271.3	286.3	315.5	345.2	354.6
162.5°	277.5	288.8	312.7	336.2	343.2
165°	282.1	290.6	308.7	327.4	332.5
167.5°	286.0	292.2	305.3	319.5	322.3
170°	290.0	293.2	302.5	312.1	313.2
172.5°	292.3	294.0	299.1	305.6	305.9
175°	294.0	294.2	296.8	300.5	299.6
177.5°	295.1	294.5	294.5	296.8	295.1
180°	294.5	294.5	294.5	294.5	294.5

(END OF REPORT)