

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: P1009625

Luminaire Tested: S122DIP-B865D925UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009625
REPORT IS A COMBINATION OF REPORTS P984989 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D925UB30-4F0-XX-W2A-F1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

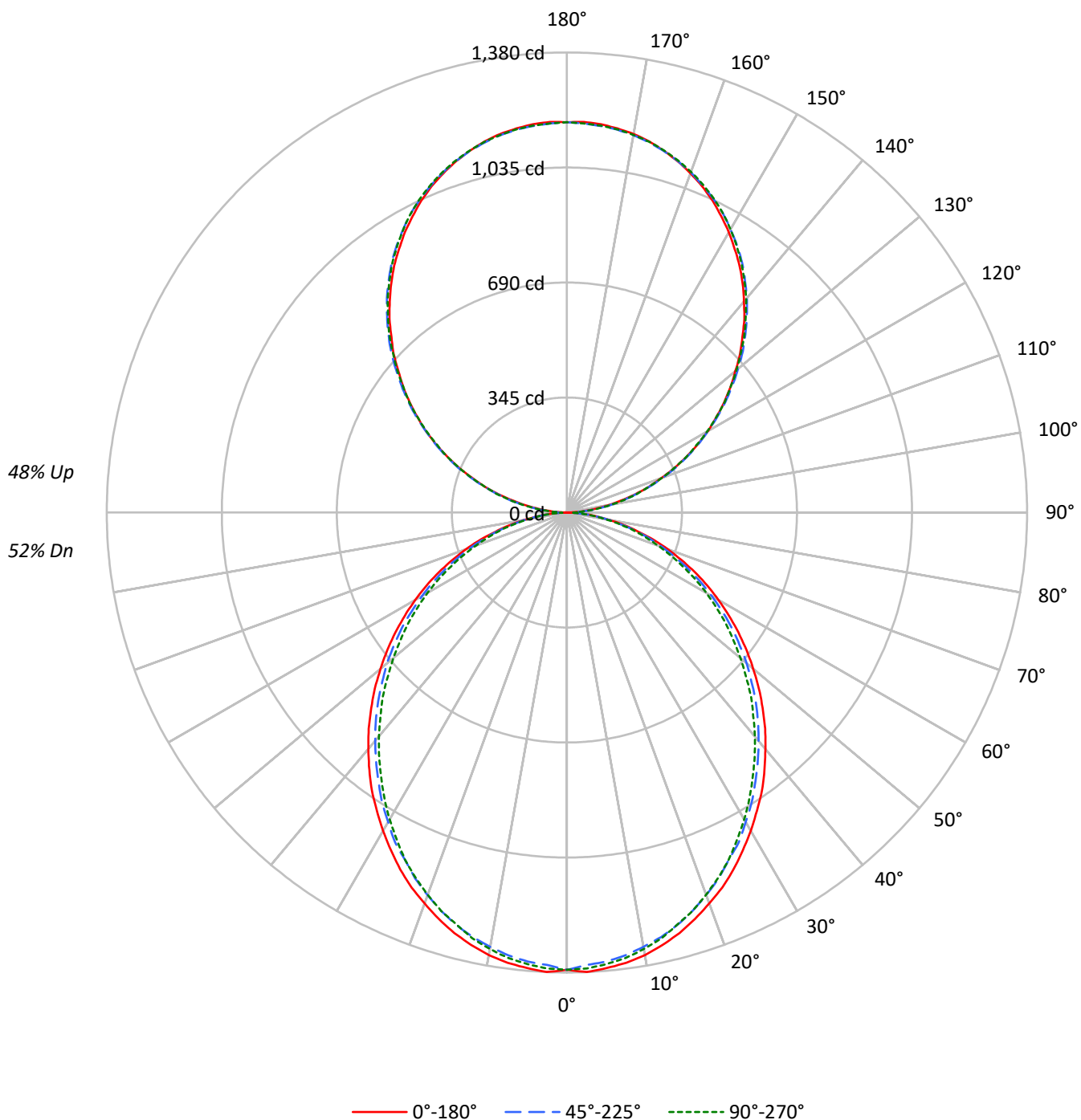
Lumens per Lamp: N/A
Luminaire Lumens: 6767.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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

TEST NUMBER: P1009625

CATALOG NUMBER: S122DIP-B865D925UB30-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1009625

CATALOG NUMBER: S122DIP-B865D925UB30-4F0-XX-W2A-F1

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	84	80	74	71	69	62	60	59	51	50	49
2	89	82	76	71	82	76	71	66	65	61	57	54	51	49	45	43	41
3	82	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	36	33	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	48	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	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	24	21	18
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21715	21715	21715
5°	21750	20698	20551
10°	21572	19755	19363
15°	21257	18804	18112
20°	20830	17770	16928
25°	20403	16691	15747
30°	19868	15677	14505
35°	19364	14605	13287
40°	18739	13549	12135
45°	18121	12501	11007
50°	17443	11436	9834
55°	16728	10296	8724
60°	15931	9062	7571
65°	15052	7808	6357
70°	13936	6435	5134
75°	12396	4961	3964
80°	10531	3370	2550
85°	7642	1567	1086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18121 cd/sqm

TEST NUMBER: P1009625

CATALOG NUMBER: S122DIP-B865D925UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	1.9
10°-20°	363.3	5.4
20°-30°	533.8	7.9
30°-40°	620.0	9.2
40°-50°	619.2	9.2
50°-60°	540.0	8.0
60°-70°	399.1	5.9
70°-80°	225.8	3.3
80°-90°	62.9	0.9
90°-100°	72.4	1.1
100°-110°	230.3	3.4
110°-120°	394.0	5.8
120°-130°	518.2	7.7
130°-140°	581.7	8.6
140°-150°	570.4	8.4
150°-160°	478.5	7.1
160°-170°	317.3	4.7
170°-180°	110.9	1.6
0°-30°	1026.2	15.2
0°-40°	1646.2	24.3
0°-60°	2805.4	41.5
0°-90°	3493.3	51.6
90°-120°	696.7	10.3
90°-150°	2367.0	35.0
90°-180°	3274.0	48.4
0°-180°	6767.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1372	1372	1372	1372	1372	
5°	1372	1366	1352	1362	1360	130
15°	1306	1298	1281	1286	1279	368
25°	1182	1171	1149	1152	1149	544
35°	1020	1006	985	977	971	637
45°	830	820	801	786	781	640
55°	628	620	604	588	582	561
65°	423	416	402	390	384	419
75°	222	219	212	204	207	236
85°	54	53	51	48	46	60
90°	1	13	35	33	34	6
95°	51	61	63	63	61	57
105°	212	215	217	219	219	224
115°	395	401	399	398	395	391
125°	575	584	581	578	577	514
135°	744	755	757	756	753	575
145°	903	910	916	917	913	564
155°	1033	1036	1038	1044	1040	475
165°	1124	1122	1122	1129	1124	317
175°	1169	1166	1164	1171	1165	111
180°	1171	1171	1171	1171	1171	

TEST NUMBER: P1009625

CATALOG NUMBER: S122DIP-B865D925UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.8	1371.8	1371.8	1371.8	1371.8
2.5°	1379.7	1373.1	1358.6	1371.8	1369.1
5°	1371.8	1366.5	1352.0	1362.5	1359.9
7.5°	1362.5	1354.6	1340.1	1350.7	1348.0
10°	1348.0	1338.8	1323.0	1333.5	1329.6
12.5°	1328.2	1320.3	1304.5	1311.1	1308.5
15°	1305.8	1297.9	1280.8	1286.0	1279.4
17.5°	1278.1	1270.2	1253.1	1259.7	1253.1
20°	1247.8	1239.9	1221.4	1225.4	1220.1
22.5°	1217.4	1205.6	1188.4	1188.4	1185.8
25°	1181.8	1171.3	1148.9	1151.5	1148.9
27.5°	1142.3	1133.0	1115.9	1111.9	1105.3
30°	1102.7	1092.1	1072.4	1068.4	1063.1
32.5°	1060.5	1052.6	1031.5	1023.6	1018.3
35°	1019.6	1006.4	985.3	977.4	970.8
37.5°	973.4	961.6	940.5	931.2	924.6
40°	925.9	915.4	894.3	882.4	877.1
42.5°	879.8	869.2	848.1	834.9	827.0
45°	829.7	820.4	800.6	786.1	780.9
47.5°	780.9	771.6	750.5	736.0	728.1
50°	729.4	722.8	704.4	685.9	679.3
52.5°	679.3	670.1	652.9	638.4	629.2
55°	627.8	619.9	604.1	588.3	581.7
57.5°	576.4	569.8	552.7	536.8	531.6
60°	525.0	519.7	501.2	486.7	482.8
62.5°	474.8	465.6	452.4	439.2	434.0
65°	423.4	415.5	402.3	390.4	383.8
67.5°	370.6	364.0	352.2	342.9	337.7
70°	321.8	316.6	304.7	295.5	290.2
72.5°	271.7	266.4	259.8	250.6	246.7
75°	221.6	219.0	212.4	204.4	207.1
77.5°	176.7	171.5	168.8	164.9	160.9
80°	131.9	130.6	127.9	124.0	121.3
82.5°	89.7	89.7	88.4	83.1	83.1
85°	54.1	52.8	51.4	47.5	46.2
87.5°	23.7	21.1	18.5	14.5	13.2
90°	1.0	12.8	34.6	32.6	33.6
92.5°	21.7	29.6	30.6	31.6	31.6
95°	51.4	61.3	63.2	63.2	61.3
97.5°	86.0	94.9	98.8	98.8	98.8
100°	125.5	133.4	136.4	136.4	135.4
102.5°	167.0	172.9	176.9	177.9	176.9
105°	212.4	215.4	217.4	219.4	219.4
107.5°	257.9	261.9	261.9	262.8	257.9
110°	301.4	307.3	307.3	307.3	304.3

TEST NUMBER: P1009625

CATALOG NUMBER: S122DIP-B865D925UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	348.8	354.7	353.7	350.8	348.8
115°	395.2	401.2	399.2	398.2	395.2
117.5°	441.7	449.6	444.7	441.7	438.7
120°	488.1	496.0	488.1	488.1	485.2
122.5°	530.6	540.5	535.6	532.6	530.6
125°	575.1	584.0	581.0	578.0	577.1
127.5°	618.6	629.4	625.5	621.5	618.6
130°	659.1	671.9	669.9	668.0	664.0
132.5°	704.5	714.4	715.4	710.5	707.5
135°	744.1	754.9	756.9	755.9	752.9
137.5°	787.5	796.4	798.4	797.4	793.5
140°	826.1	835.0	839.9	839.9	835.9
142.5°	865.6	874.5	877.4	878.4	874.5
145°	903.1	910.1	916.0	917.0	913.0
147.5°	936.7	945.6	949.6	951.6	947.6
150°	971.3	977.2	981.2	984.2	981.2
152.5°	1002.0	1007.9	1012.8	1016.8	1012.8
155°	1032.6	1035.5	1038.5	1043.5	1040.5
157.5°	1059.3	1061.2	1063.2	1070.1	1065.2
160°	1083.0	1085.0	1085.9	1091.9	1087.9
162.5°	1104.7	1104.7	1105.7	1112.6	1107.7
165°	1123.5	1122.5	1122.5	1129.4	1124.5
167.5°	1140.3	1137.3	1137.3	1144.2	1139.3
170°	1153.1	1150.2	1149.2	1156.1	1150.2
172.5°	1162.0	1159.1	1158.1	1165.0	1159.1
175°	1168.9	1166.0	1164.0	1170.9	1165.0
177.5°	1172.9	1169.9	1168.0	1173.9	1168.0
180°	1170.9	1170.9	1170.9	1170.9	1170.9

(END OF REPORT)