

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: P1009534

Luminaire Tested: S122DIP-B865D530UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009534
REPORT IS A COMBINATION OF REPORTS P984868 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D530UB30-4F0-XX-W2A-F
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

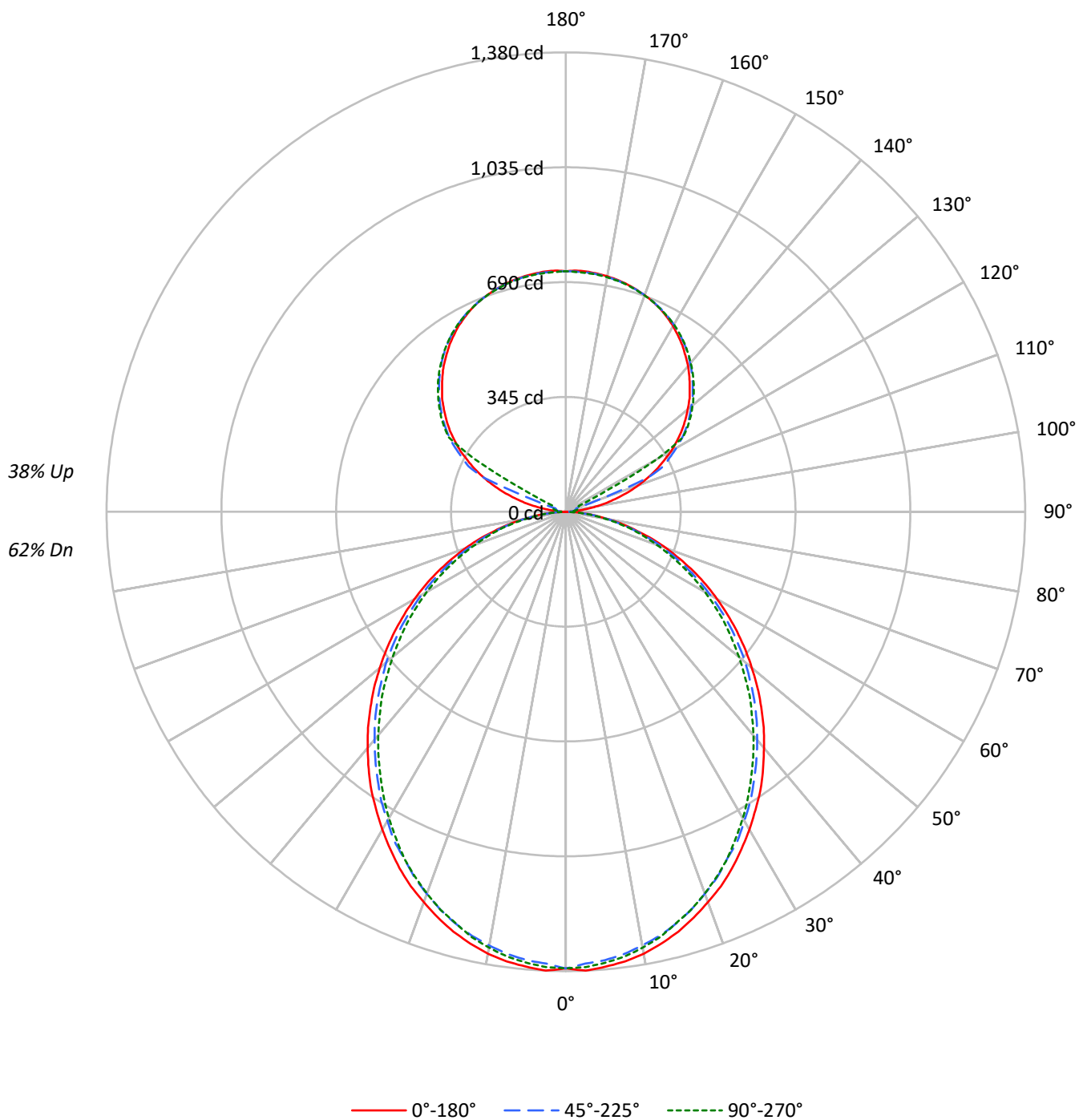
Lumens per Lamp: N/A
Luminaire Lumens: 5610.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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: P1009534

CATALOG NUMBER: S122DIP-B865D530UB30-4F0-XX-W2A-F

Luminous Intensity Polar Plot



TEST NUMBER: P1009534

CATALOG NUMBER: S122DIP-B865D530UB30-4F0-XX-W2A-F

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	78	78	78	67	67	67
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	58	57
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	52	50	48
3	84	74	66	60	78	69	63	57	61	56	52	54	50	46	46	43	41
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35
5	70	58	50	44	66	55	48	42	49	43	38	43	38	34	37	34	31
6	65	52	44	38	61	50	42	37	44	38	33	39	34	30	34	30	27
7	60	47	39	34	56	45	37	32	40	34	29	35	30	27	31	27	24
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22
9	52	39	32	27	49	37	30	26	34	28	24	30	25	22	26	22	20
10	49	36	29	24	46	34	28	23	31	25	21	28	23	20	25	21	18

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: P1009534

CATALOG NUMBER: S122DIP-B865D530UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.1	2.3
10°-20°	363.3	6.5
20°-30°	533.8	9.5
30°-40°	620.0	11.1
40°-50°	619.2	11.0
50°-60°	540.0	9.6
60°-70°	399.1	7.1
70°-80°	225.8	4.0
80°-90°	60.9	1.1
90°-100°	23.8	0.4
100°-110°	88.8	1.6
110°-120°	235.6	4.2
120°-130°	390.8	7.0
130°-140°	415.1	7.4
140°-150°	385.8	6.9
150°-160°	310.2	5.5
160°-170°	199.9	3.6
170°-180°	68.8	1.2
0°-30°	1026.2	18.3
0°-40°	1646.2	29.3
0°-60°	2805.4	50.0
0°-90°	3491.3	62.2
90°-120°	348.3	6.2
90°-150°	1539.9	27.4
90°-180°	2119.0	37.8
0°-180°	5610.0	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°	0	6	10	13	14	5
95°	34	17	20	23	22	40
105°	159	175	32	38	40	170
115°	301	310	323	80	43	296
125°	425	432	442	446	447	379
135°	526	534	539	544	543	406
145°	610	610	619	622	620	382
155°	672	667	674	677	672	310
165°	708	705	706	710	706	200
175°	724	721	722	725	720	69
180°	723	723	723	723	723	

TEST NUMBER: P1009534

CATALOG NUMBER: S122DIP-B865D530UB30-4F0-XX-W2A-F

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°	0.5	6.3	10.5	13.1	14.1
92.5°	13.1	11.0	12.6	13.6	14.1
95°	34.0	16.7	20.4	23.0	22.5
97.5°	61.2	18.3	26.7	28.2	28.8
100°	92.6	20.9	29.8	34.0	35.0
102.5°	127.1	126.0	30.9	36.6	38.2
105°	159.0	174.7	31.9	37.7	39.7
107.5°	196.1	209.2	32.9	38.7	40.8
110°	231.7	242.6	91.5	39.2	41.3



TEST NUMBER: P1009534

CATALOG NUMBER: S122DIP-B865D530UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	265.1	274.5	265.7	40.3	41.8
115°	300.7	309.6	322.7	80.5	42.9
117.5°	331.5	342.0	350.9	276.1	139.1
120°	366.1	373.9	383.3	389.6	319.0
122.5°	395.3	403.7	414.2	417.3	417.8
125°	425.2	432.0	441.9	445.5	447.1
127.5°	452.3	459.7	467.5	472.7	473.3
130°	478.0	486.3	492.1	497.8	497.3
132.5°	504.1	510.9	516.7	521.4	520.9
135°	526.1	534.4	539.2	544.4	543.3
137.5°	549.1	555.4	560.6	565.8	564.3
140°	571.6	575.8	581.5	586.2	583.6
142.5°	590.4	594.1	600.9	605.0	602.4
145°	610.3	609.8	618.6	622.3	619.7
147.5°	627.5	626.0	634.9	637.5	635.4
150°	644.3	640.6	649.0	652.1	649.5
152.5°	658.4	654.2	662.0	665.2	661.5
155°	672.0	667.3	673.6	676.7	672.5
157.5°	683.0	678.8	683.5	687.1	683.0
160°	692.4	689.2	692.4	695.5	691.9
162.5°	700.7	697.6	700.2	703.9	699.2
165°	708.1	704.9	706.5	710.2	706.5
167.5°	713.8	710.7	712.2	715.9	711.2
170°	718.5	715.4	716.4	720.1	715.4
172.5°	721.7	718.5	719.6	723.2	718.5
175°	724.3	720.6	721.7	725.3	720.1
177.5°	725.3	721.7	722.2	725.8	721.1
180°	722.7	722.7	722.7	722.7	722.7

(END OF REPORT)