

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: P1008270

Luminaire Tested: S122DIP-B865D725UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008270
REPORT IS A COMBINATION OF REPORTS P984913 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D725UB2750-4F0-XX-W2A-D_3000K
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

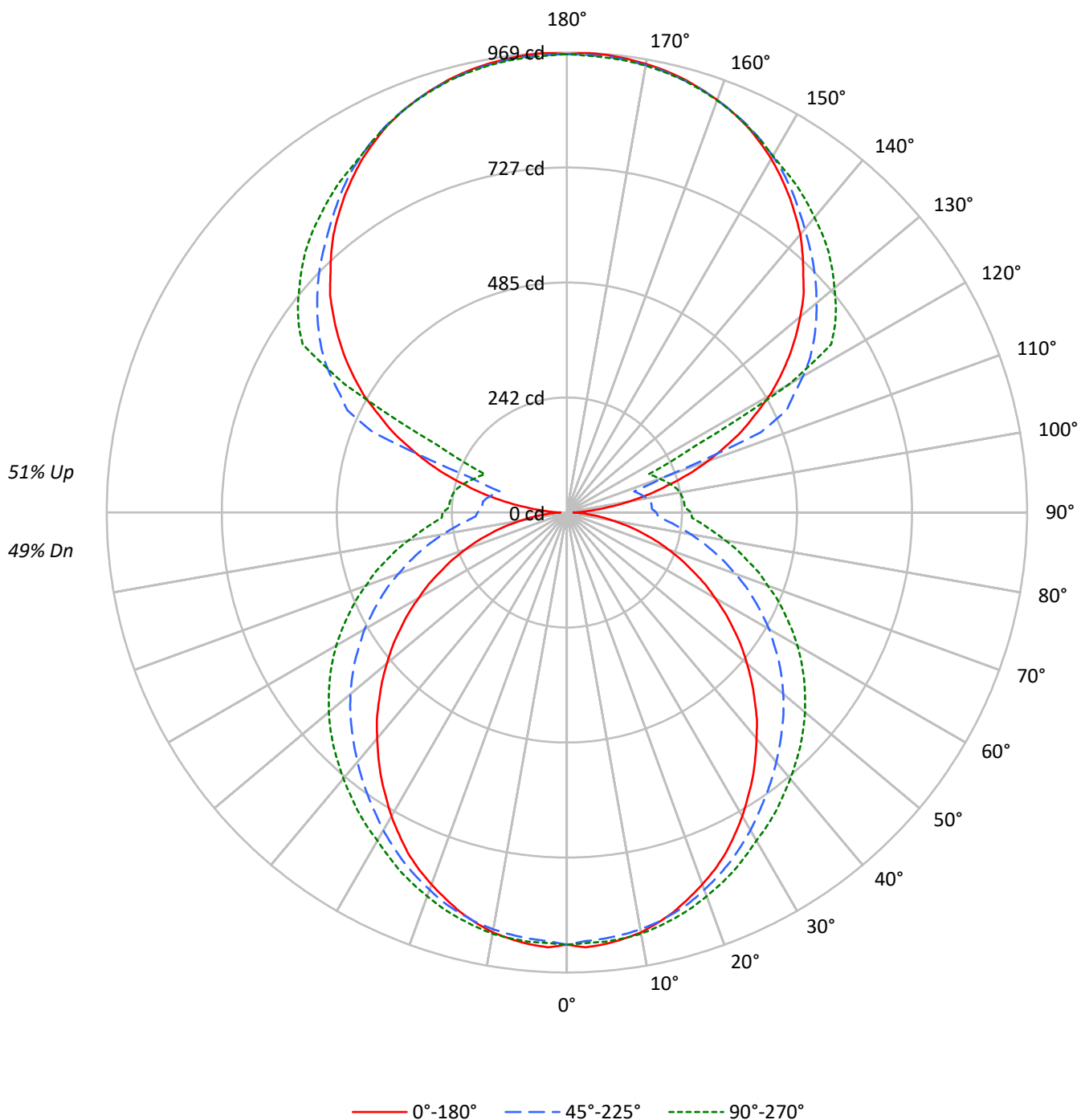
Lumens per Lamp: N/A
Luminaire Lumens: 6305.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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: P1008270

CATALOG NUMBER: S122DIP-B865D725UB2750-4F0-XX-W2A-D_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1008270

CATALOG NUMBER: S122DIP-B865D725UB2750-4F0-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	98	98	98	98	83	83	83	68	68	68	55	55	55
1	96	91	87	83	88	84	80	77	70	68	65	58	56	54	46	45	44
2	87	79	72	66	80	73	67	62	61	56	53	50	47	44	40	38	36
3	79	69	61	55	72	63	56	51	53	48	44	44	40	36	35	32	30
4	72	60	52	46	66	56	48	43	47	41	37	39	34	31	31	28	25
5	66	54	45	39	60	50	42	36	42	36	31	35	30	26	28	24	22
6	61	48	40	33	55	44	37	31	37	32	27	31	26	23	25	22	19
7	56	43	35	29	51	40	33	27	34	28	24	28	24	20	23	19	17
8	52	39	31	26	47	36	29	24	31	25	21	26	21	18	21	17	15
9	48	36	28	23	44	33	26	21	28	23	19	24	19	16	19	16	13
10	45	33	25	20	41	30	24	19	26	20	17	22	17	14	18	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14408	14408	14408
5°	14473	13793	13716
10°	14375	13315	13121
15°	14172	12822	12511
20°	13917	12303	11934
25°	13665	11806	11409
30°	13310	11300	10889
35°	12952	10814	10507
40°	12575	10392	10129
45°	12215	10011	9799
50°	11830	9659	9472
55°	11423	9285	9140
60°	10927	8895	8791
65°	10409	8448	8389
70°	9826	7969	7957
75°	9079	7486	7549
80°	7896	6986	7127
85°	6710	6516	6763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12215 cd/sqm

TEST NUMBER: P1008270

CATALOG NUMBER: S122DIP-B865D725UB2750-4F0-XX-W2A-D_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	1.4
10°-20°	247.5	3.9
20°-30°	375.0	5.9
30°-40°	456.6	7.2
40°-50°	491.3	7.8
50°-60°	477.1	7.6
60°-70°	416.7	6.6
70°-80°	320.7	5.1
80°-90°	216.5	3.4
90°-100°	180.0	2.9
100°-110°	226.9	3.6
110°-120°	386.2	6.1
120°-130°	561.8	8.9
130°-140°	571.2	9.1
140°-150°	518.2	8.2
150°-160°	414.3	6.6
160°-170°	267.0	4.2
170°-180°	91.9	1.5
0°-30°	708.7	11.2
0°-40°	1165.3	18.5
0°-60°	2133.7	33.8
0°-90°	3087.5	49.0
90°-120°	793.1	12.6
90°-150°	2444.3	38.8
90°-180°	3217.0	51.0
0°-180°	6305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	913	909	901	909	908	87
15°	871	873	873	885	884	245
25°	792	801	813	828	832	364
35°	682	704	730	758	768	426
45°	559	595	641	682	695	432
55°	429	476	545	592	609	383
65°	293	358	435	489	506	291
75°	162	236	320	377	394	172
85°	48	129	214	269	288	50
90°	14	98	188	244	262	12
95°	56	95	179	232	248	62
105°	219	278	156	210	227	234
115°	407	433	510	226	190	400
125°	570	580	635	676	690	509
135°	704	715	735	769	779	544
145°	815	814	826	839	842	510
155°	898	891	900	904	898	414
165°	946	942	944	949	944	267
175°	968	963	964	969	962	92
180°	965	965	965	965	965	

TEST NUMBER: P1008270

CATALOG NUMBER: S122DIP-B865D725UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.2	910.2	910.2	910.2	910.2
2.5°	916.8	912.8	903.6	910.2	907.6
5°	912.8	908.9	901.0	908.9	907.6
7.5°	906.2	903.6	897.0	906.2	904.9
10°	898.3	895.7	891.7	902.3	901.0
12.5°	885.1	886.5	883.8	894.4	893.1
15°	870.6	873.3	873.3	885.1	883.8
17.5°	852.2	857.4	861.4	873.3	873.3
20°	833.7	840.3	845.6	860.1	860.1
22.5°	813.9	821.8	829.7	844.2	846.9
25°	791.5	800.7	812.6	828.4	832.4
27.5°	765.1	779.6	792.8	812.6	815.2
30°	738.7	755.9	773.0	794.1	798.1
32.5°	709.7	729.5	750.6	775.6	783.6
35°	682.0	704.4	729.5	758.5	767.7
37.5°	651.6	676.7	708.4	740.0	749.3
40°	621.3	650.3	685.9	720.2	732.1
42.5°	592.3	621.3	663.5	701.8	713.6
45°	559.3	594.9	641.1	682.0	695.2
47.5°	527.7	565.9	618.7	660.9	675.4
50°	494.7	535.6	594.9	639.8	654.3
52.5°	463.0	506.5	569.9	616.0	631.9
55°	428.7	476.2	544.8	592.3	609.4
57.5°	395.7	448.5	517.1	568.5	585.7
60°	360.1	416.8	492.0	542.2	560.6
62.5°	328.5	387.8	463.0	517.1	534.2
65°	292.8	357.5	435.3	489.4	506.5
67.5°	261.2	328.5	407.6	461.7	480.2
70°	226.9	295.5	377.3	434.0	449.8
72.5°	195.2	266.5	349.6	405.0	424.8
75°	162.3	236.1	320.5	377.3	394.4
77.5°	130.6	207.1	292.8	349.6	368.0
80°	98.9	179.4	265.1	320.5	339.0
82.5°	72.6	151.7	238.8	294.2	311.3
85°	47.5	129.3	213.7	269.1	287.6
87.5°	29.0	108.2	192.6	246.7	263.8
90°	13.9	98.1	188.1	244.4	261.6
92.5°	29.4	96.5	179.1	231.9	248.4
95°	56.0	95.0	178.9	232.5	247.7
97.5°	90.9	90.5	178.1	229.0	245.5
100°	132.8	85.9	171.7	226.1	242.0
102.5°	177.7	219.8	163.9	219.1	235.7
105°	219.0	278.2	156.0	209.9	227.2
107.5°	268.6	317.7	148.2	200.8	218.1
110°	314.8	355.8	218.6	190.9	208.2

TEST NUMBER: P1008270

CATALOG NUMBER: S122DIP-B865D725UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.5	393.2	442.0	183.1	199.7
115°	407.0	433.4	510.1	226.3	190.5
117.5°	446.9	471.4	538.6	478.3	308.5
120°	493.0	508.7	574.1	619.3	539.5
122.5°	532.1	544.6	607.4	647.2	659.8
125°	570.5	579.6	635.2	675.7	689.6
127.5°	606.9	615.3	661.4	701.4	714.0
130°	641.1	651.0	686.4	725.7	735.5
132.5°	676.0	683.8	711.3	747.9	757.8
135°	704.1	715.2	734.7	769.4	778.6
137.5°	734.8	743.2	756.8	788.9	796.0
140°	764.8	769.1	779.4	806.8	811.3
142.5°	790.0	793.6	802.7	824.1	827.2
145°	815.2	814.5	826.4	839.2	842.3
147.5°	838.3	836.2	848.1	852.9	854.1
150°	860.6	855.8	866.9	871.1	867.6
152.5°	879.5	873.9	884.4	888.6	883.7
155°	897.7	891.4	899.8	904.0	898.4
157.5°	912.3	906.7	913.0	917.9	912.3
160°	924.9	920.7	924.9	929.1	924.2
162.5°	936.1	931.9	935.4	940.3	934.0
165°	945.9	941.7	943.8	948.7	943.8
167.5°	953.6	949.4	951.5	956.3	950.1
170°	959.8	955.6	957.0	961.9	955.6
172.5°	964.0	959.8	961.2	966.1	959.8
175°	967.5	962.6	964.0	968.9	961.9
177.5°	968.9	964.0	964.7	969.6	963.3
180°	965.4	965.4	965.4	965.4	965.4

(END OF REPORT)