

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: P1008269

Luminaire Tested: S122DIP-B865D725UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008269
REPORT IS A COMBINATION OF REPORTS P984912 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D725UB2750-4F0-XX-W2A-D_2700K
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

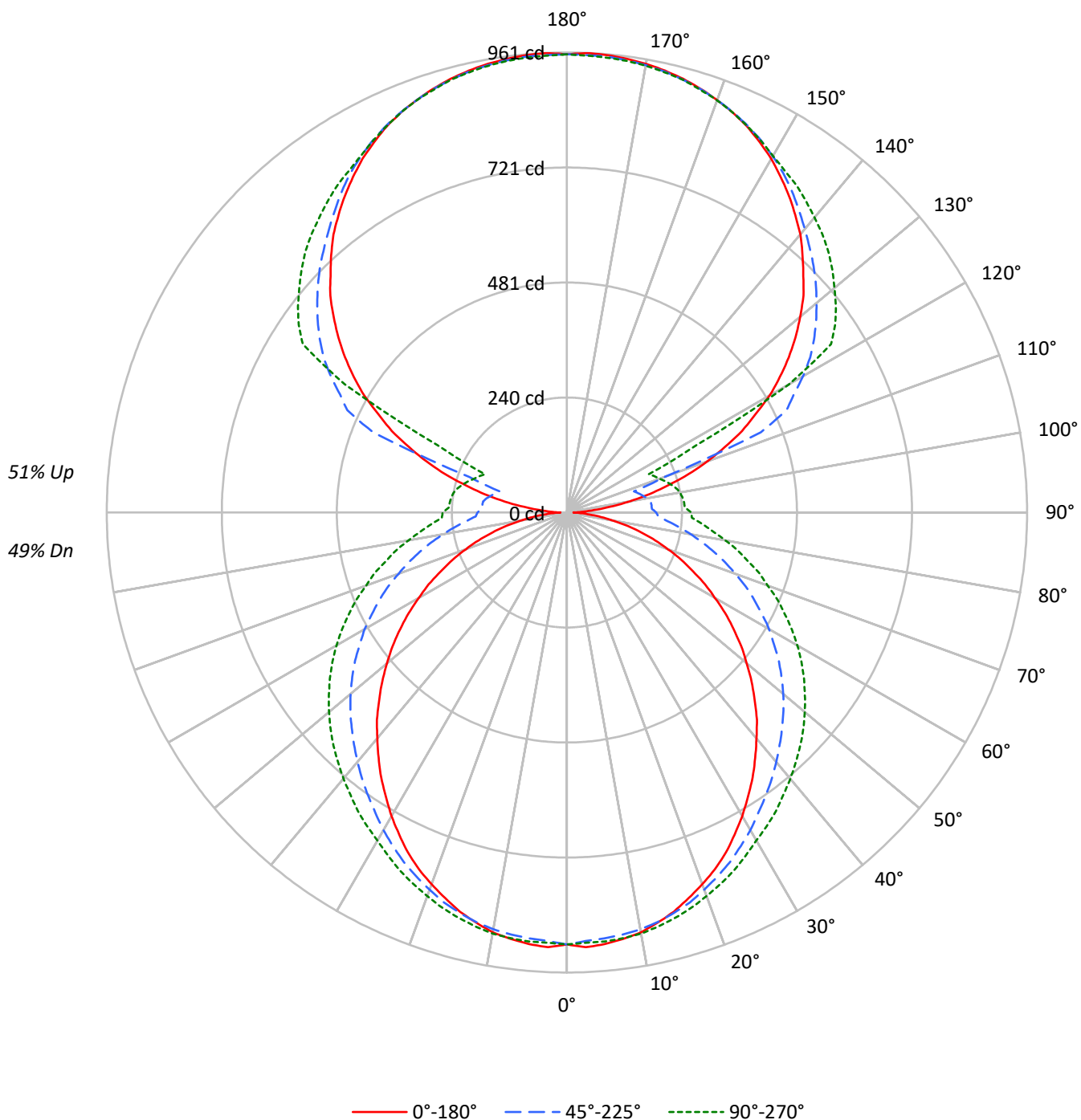
Lumens per Lamp: N/A
Luminaire Lumens: 6251.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
Input Voltage (V): 120
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: P1008269

CATALOG NUMBER: S122DIP-B865D725UB2750-4F0-XX-W2A-D_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1008269

CATALOG NUMBER: S122DIP-B865D725UB2750-4F0-XX-W2A-D_2700K

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°	14283	14283	14283
5°	14349	13674	13596
10°	14252	13200	13008
15°	14050	12710	12404
20°	13797	12196	11829
25°	13546	11704	11310
30°	13195	11202	10795
35°	12840	10720	10417
40°	12465	10303	10041
45°	12110	9925	9714
50°	11727	9576	9390
55°	11325	9205	9062
60°	10833	8819	8716
65°	10320	8376	8318
70°	9740	7899	7888
75°	9001	7423	7484
80°	7832	6928	7066
85°	6653	6461	6704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12110 cd/sqm

TEST NUMBER: P1008269

CATALOG NUMBER: S122DIP-B865D725UB2750-4F0-XX-W2A-D_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.4
10°-20°	245.3	3.9
20°-30°	371.7	5.9
30°-40°	452.7	7.2
40°-50°	487.0	7.8
50°-60°	473.0	7.6
60°-70°	413.1	6.6
70°-80°	317.9	5.1
80°-90°	214.6	3.4
90°-100°	178.5	2.9
100°-110°	224.9	3.6
110°-120°	382.9	6.1
120°-130°	557.0	8.9
130°-140°	566.4	9.1
140°-150°	513.8	8.2
150°-160°	410.8	6.6
160°-170°	264.7	4.2
170°-180°	91.1	1.5
0°-30°	702.6	11.2
0°-40°	1155.3	18.5
0°-60°	2115.3	33.8
0°-90°	3060.8	49.0
90°-120°	786.3	12.6
90°-150°	2423.5	38.8
90°-180°	3190.0	51.0
0°-180°	6251.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	905	901	893	901	900	86
15°	863	866	866	878	876	243
25°	785	794	806	821	825	361
35°	676	698	723	752	761	423
45°	554	590	636	676	689	428
55°	425	472	540	587	604	380
65°	290	354	432	485	502	288
75°	161	234	318	374	391	170
85°	47	128	212	267	285	50
90°	14	97	186	242	259	12
95°	56	94	177	231	246	61
105°	217	276	155	208	225	232
115°	404	430	506	224	189	397
125°	566	575	630	670	684	505
135°	698	709	728	763	772	540
145°	808	808	819	832	835	506
155°	890	884	892	896	891	410
165°	938	934	936	941	936	265
175°	959	954	956	961	954	91
180°	957	957	957	957	957	

TEST NUMBER: P1008269

CATALOG NUMBER: S122DIP-B865D725UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.3	902.3	902.3	902.3	902.3
2.5°	908.9	905.0	895.8	902.3	899.7
5°	905.0	901.0	893.2	901.0	899.7
7.5°	898.4	895.8	889.3	898.4	897.1
10°	890.6	888.0	884.0	894.5	893.2
12.5°	877.5	878.8	876.2	886.6	885.3
15°	863.1	865.7	865.7	877.5	876.2
17.5°	844.8	850.0	854.0	865.7	865.7
20°	826.5	833.0	838.3	852.6	852.6
22.5°	806.9	814.7	822.6	836.9	839.6
25°	784.6	793.8	805.6	821.3	825.2
27.5°	758.5	772.9	785.9	805.6	808.2
30°	732.3	749.3	766.3	787.3	791.2
32.5°	703.6	723.2	744.1	768.9	776.8
35°	676.1	698.3	723.2	751.9	761.1
37.5°	646.0	670.9	702.3	733.6	742.8
40°	615.9	644.7	680.0	714.0	725.8
42.5°	587.2	615.9	657.8	695.7	707.5
45°	554.5	589.8	635.6	676.1	689.2
47.5°	523.1	561.0	613.3	655.2	669.6
50°	490.4	530.9	589.8	634.3	648.6
52.5°	459.0	502.2	564.9	610.7	626.4
55°	425.0	472.1	540.1	587.2	604.2
57.5°	392.3	444.6	512.6	563.6	580.6
60°	357.0	413.2	487.8	537.5	555.8
62.5°	325.6	384.5	459.0	512.6	529.6
65°	290.3	354.4	431.6	485.2	502.2
67.5°	258.9	325.6	404.1	457.7	476.0
70°	224.9	292.9	374.0	430.2	445.9
72.5°	193.5	264.2	346.5	401.5	421.1
75°	160.9	234.1	317.8	374.0	391.0
77.5°	129.5	205.3	290.3	346.5	364.9
80°	98.1	177.9	262.9	317.8	336.1
82.5°	71.9	150.4	236.7	291.6	308.6
85°	47.1	128.2	211.9	266.8	285.1
87.5°	28.8	107.2	190.9	244.5	261.5
90°	13.8	97.2	186.5	242.2	259.3
92.5°	29.1	95.6	177.5	229.9	246.2
95°	55.5	94.1	177.4	230.6	245.6
97.5°	90.2	89.6	176.5	227.0	243.4
100°	131.8	85.2	170.3	224.2	239.9
102.5°	176.1	217.9	162.5	217.2	233.7
105°	217.1	275.8	154.8	208.1	225.2
107.5°	266.2	315.0	146.9	199.1	216.2
110°	312.0	352.8	216.7	189.2	206.4

TEST NUMBER: P1008269

CATALOG NUMBER: S122DIP-B865D725UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	356.4	389.8	438.2	181.5	197.9
115°	403.5	429.7	505.9	224.4	188.9
117.5°	443.0	467.4	534.1	474.2	305.8
120°	488.8	504.4	569.2	614.1	535.0
122.5°	527.5	539.9	602.2	641.6	654.1
125°	565.7	574.7	629.8	669.9	683.7
127.5°	601.7	610.1	655.8	695.5	708.0
130°	635.7	645.5	680.6	719.6	729.3
132.5°	670.3	678.0	705.2	741.6	751.4
135°	698.1	709.2	728.5	762.9	772.0
137.5°	728.6	736.9	750.3	782.2	789.2
140°	758.4	762.6	772.8	800.0	804.4
142.5°	783.3	786.9	795.9	817.1	820.1
145°	808.3	807.6	819.4	832.1	835.2
147.5°	831.2	829.1	840.9	845.6	846.8
150°	853.3	848.5	859.6	863.7	860.3
152.5°	872.1	866.5	876.9	881.1	876.2
155°	890.1	883.8	892.1	896.3	890.8
157.5°	904.6	899.1	905.3	910.1	904.6
160°	917.1	912.9	917.1	921.2	916.4
162.5°	928.2	924.0	927.5	932.3	926.1
165°	937.9	933.7	935.8	940.6	935.8
167.5°	945.5	941.3	943.4	948.2	942.0
170°	951.7	947.6	948.9	953.8	947.6
172.5°	955.9	951.7	953.1	957.9	951.7
175°	959.3	954.5	955.9	960.7	953.8
177.5°	960.7	955.9	956.6	961.4	955.2
180°	957.2	957.2	957.2	957.2	957.2

(END OF REPORT)