

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: P1008051

Luminaire Tested: S122DIP-B290D725UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008051
REPORT IS A COMBINATION OF REPORTS P984019 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D725UB2750-4F0-XX-W2A-F_3500K
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

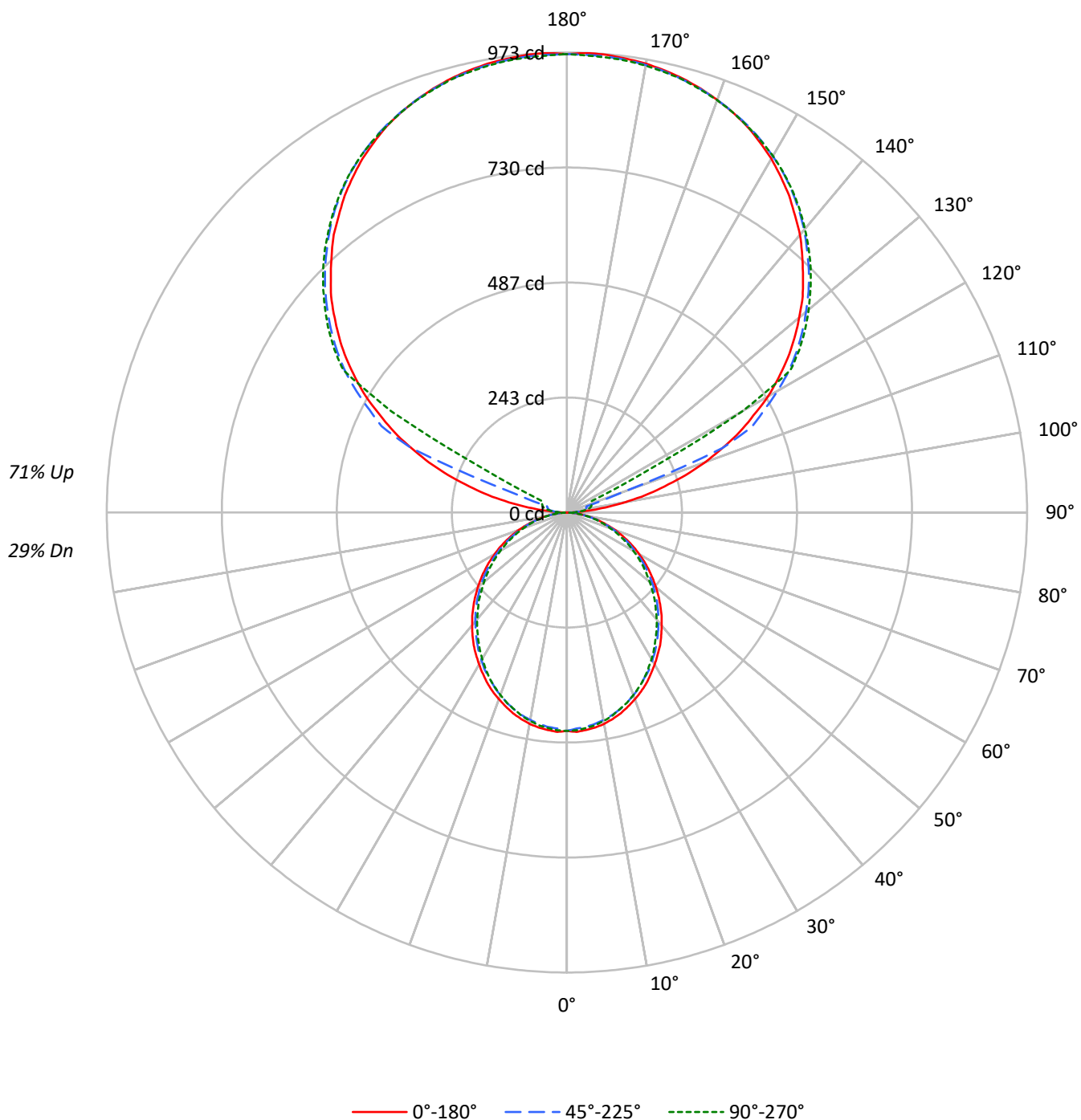
Lumens per Lamp: N/A
Luminaire Lumens: 4019.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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: P1008051

CATALOG NUMBER: S122DIP-B290D725UB2750-4F0-XX-W2A-F_3500K

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	31
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	29	27	26
3	77	68	61	56	69	61	55	51	48	44	41	37	34	31	26	24	22
4	71	60	53	47	63	54	48	43	43	38	35	33	29	27	23	21	19
5	65	54	46	40	58	48	42	36	38	33	30	29	26	23	20	18	17
6	60	48	40	34	53	43	36	32	34	30	26	26	23	20	19	16	15
7	55	43	35	30	49	39	32	28	31	26	23	24	20	18	17	15	13
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	16	13	12
9	47	35	28	23	42	32	26	21	26	21	18	20	17	14	14	12	11
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7310	7310	7310
5°	7322	6969	6918
10°	7262	6651	6518
15°	7156	6331	6099
20°	7013	5983	5700
25°	6870	5619	5302
30°	6688	5277	4883
35°	6520	4917	4473
40°	6309	4562	4085
45°	6100	4210	3706
50°	5873	3850	3311
55°	5633	3467	2937
60°	5362	3050	2548
65°	5066	2628	2140
70°	4694	2167	1728
75°	4173	1670	1334
80°	3545	1136	860
85°	2571	528	364

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6100 cd/sqm

TEST NUMBER: P1008051

CATALOG NUMBER: S122DIP-B290D725UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	1.1
10°-20°	122.3	3.0
20°-30°	179.7	4.5
30°-40°	208.7	5.2
40°-50°	208.5	5.2
50°-60°	181.8	4.5
60°-70°	134.4	3.3
70°-80°	76.0	1.9
80°-90°	21.8	0.5
90°-100°	32.0	0.8
100°-110°	119.2	3.0
110°-120°	316.1	7.9
120°-130°	524.2	13.0
130°-140°	556.8	13.9
140°-150°	517.5	12.9
150°-160°	416.1	10.4
160°-170°	268.1	6.7
170°-180°	92.3	2.3
0°-30°	345.5	8.6
0°-40°	554.2	13.8
0°-60°	944.5	23.5
0°-90°	1176.7	29.3
90°-120°	467.2	11.6
90°-150°	2065.8	51.4
90°-180°	2842.0	70.7
0°-180°	4019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	462	462	462	462	462	
5°	462	460	455	459	458	44
15°	440	437	431	433	431	124
25°	398	394	387	388	387	183
35°	343	339	332	329	327	214
45°	279	276	270	265	263	216
55°	211	209	203	198	196	189
65°	142	140	135	131	129	141
75°	75	74	72	69	70	80
85°	18	18	17	16	16	20
90°	1	8	14	18	19	4
95°	46	22	27	31	30	54
105°	213	234	43	50	53	228
115°	403	415	433	108	58	397
125°	570	580	593	598	600	509
135°	706	717	723	730	729	545
145°	819	818	830	835	831	512
155°	902	895	904	908	902	415
165°	950	946	948	953	948	268
175°	972	967	968	973	966	92
180°	970	970	970	970	970	

TEST NUMBER: P1008051

CATALOG NUMBER: S122DIP-B290D725UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.8	461.8	461.8	461.8	461.8
2.5°	464.5	462.3	457.4	461.8	461.0
5°	461.8	460.1	455.2	458.7	457.8
7.5°	458.7	456.1	451.2	454.7	453.8
10°	453.8	450.7	445.4	449.0	447.6
12.5°	447.2	444.5	439.2	441.4	440.5
15°	439.6	437.0	431.2	433.0	430.8
17.5°	430.3	427.6	421.9	424.1	421.9
20°	420.1	417.4	411.2	412.5	410.8
22.5°	409.9	405.9	400.1	400.1	399.2
25°	397.9	394.3	386.8	387.7	386.8
27.5°	384.6	381.5	375.7	374.4	372.1
30°	371.2	367.7	361.0	359.7	357.9
32.5°	357.0	354.4	347.3	344.6	342.8
35°	343.3	338.8	331.7	329.1	326.8
37.5°	327.7	323.7	316.6	313.5	311.3
40°	311.7	308.2	301.1	297.1	295.3
42.5°	296.2	292.6	285.5	281.1	278.4
45°	279.3	276.2	269.6	264.7	262.9
47.5°	262.9	259.8	252.7	247.8	245.1
50°	245.6	243.4	237.1	230.9	228.7
52.5°	228.7	225.6	219.8	214.9	211.8
55°	211.4	208.7	203.4	198.1	195.8
57.5°	194.1	191.8	186.1	180.7	179.0
60°	176.7	175.0	168.7	163.9	162.5
62.5°	159.9	156.8	152.3	147.9	146.1
65°	142.5	139.9	135.4	131.4	129.2
67.5°	124.8	122.6	118.6	115.5	113.7
70°	108.4	106.6	102.6	99.5	97.7
72.5°	91.5	89.7	87.5	84.4	83.0
75°	74.6	73.7	71.5	68.8	69.7
77.5°	59.5	57.7	56.8	55.5	54.2
80°	44.4	44.0	43.1	41.7	40.9
82.5°	30.2	30.2	29.8	28.0	28.0
85°	18.2	17.8	17.3	16.0	15.5
87.5°	8.0	7.1	6.2	4.9	4.4
90°	0.7	8.4	14.0	17.5	18.9
92.5°	17.5	14.7	16.8	18.2	18.9
95°	45.6	22.4	27.4	30.9	30.2
97.5°	82.1	24.6	35.8	37.9	38.6
100°	124.2	28.1	40.0	45.6	47.0
102.5°	170.5	169.1	41.4	49.1	51.2
105°	213.3	234.3	42.8	50.5	53.3
107.5°	263.1	280.6	44.2	51.9	54.7
110°	310.8	325.5	122.8	52.6	55.4

TEST NUMBER: P1008051

CATALOG NUMBER: S122DIP-B290D725UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	355.7	368.3	356.4	54.0	56.1
115°	403.4	415.3	432.8	108.0	57.5
117.5°	444.8	458.8	470.7	370.4	186.6
120°	491.1	501.6	514.2	522.6	427.9
122.5°	530.4	541.6	555.6	559.8	560.5
125°	570.3	579.5	592.8	597.7	599.8
127.5°	606.8	616.6	627.2	634.2	634.9
130°	641.2	652.4	660.1	667.9	667.2
132.5°	676.3	685.4	693.1	699.4	698.7
135°	705.7	717.0	723.3	730.3	728.9
137.5°	736.6	745.0	752.0	759.1	757.0
140°	766.8	772.4	780.1	786.4	782.9
142.5°	792.0	796.9	806.1	811.7	808.2
145°	818.7	818.0	829.9	834.8	831.3
147.5°	841.8	839.7	851.7	855.2	852.4
150°	864.3	859.4	870.6	874.8	871.3
152.5°	883.2	877.6	888.1	892.4	887.4
155°	901.5	895.2	903.6	907.8	902.2
157.5°	916.2	910.6	916.9	921.8	916.2
160°	928.8	924.6	928.8	933.0	928.1
162.5°	940.1	935.8	939.4	944.3	938.0
165°	949.9	945.7	947.8	952.7	947.8
167.5°	957.6	953.4	955.5	960.4	954.1
170°	963.9	959.7	961.1	966.0	959.7
172.5°	968.1	963.9	965.3	970.2	963.9
175°	971.6	966.7	968.1	973.0	966.0
177.5°	973.0	968.1	968.8	973.7	967.4
180°	969.5	969.5	969.5	969.5	969.5

(END OF REPORT)