

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: P1008902

Luminaire Tested: S122DIP-B290D725UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008902
REPORT IS A COMBINATION OF REPORTS P984002 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D725UB27-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

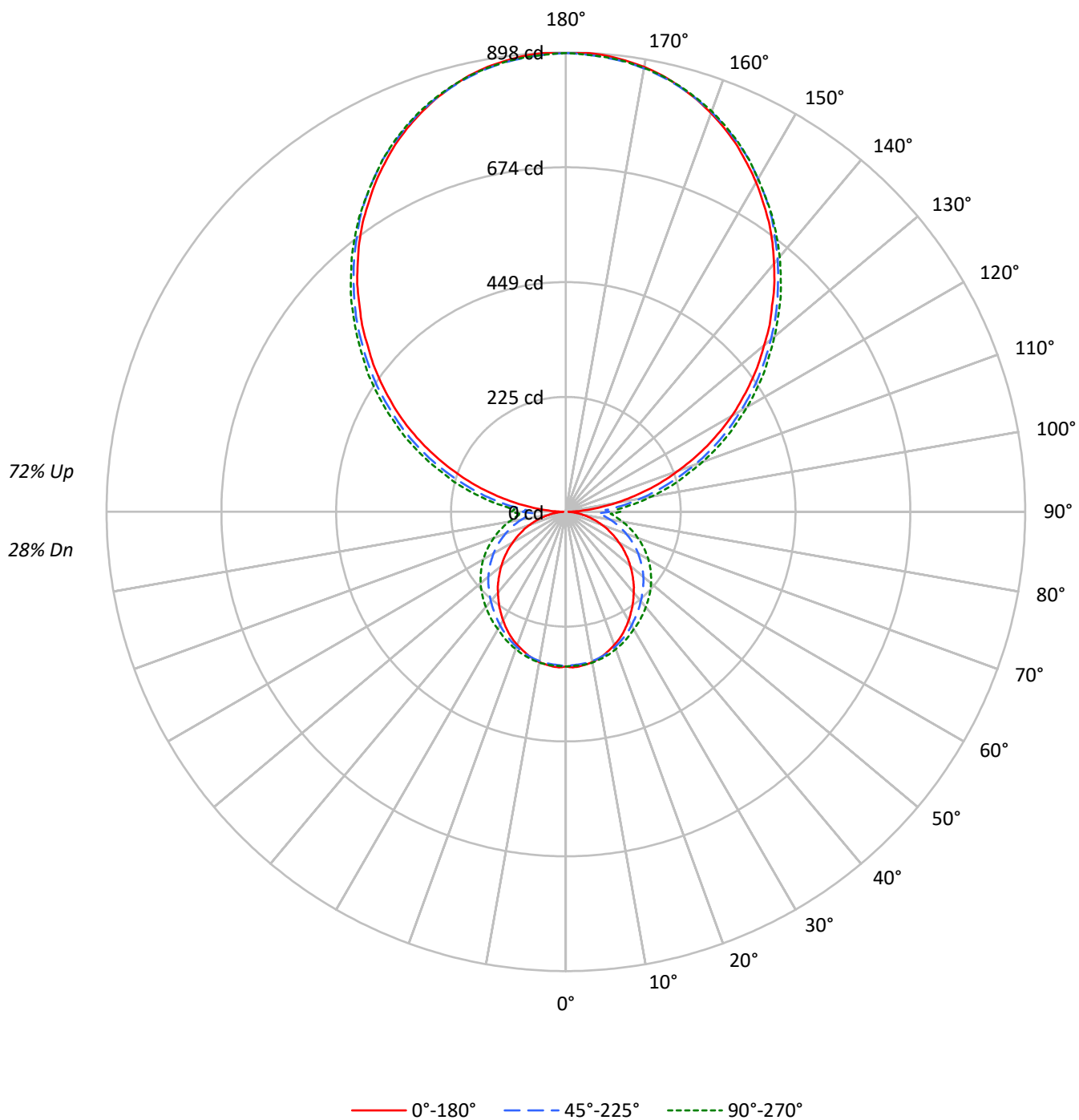
Lumens per Lamp: N/A
Luminaire Lumens: 3664.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1008902

CATALOG NUMBER: S122DIP-B290D725UB27-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1008902

CATALOG NUMBER: S122DIP-B290D725UB27-4F0-XX-W2A-D1

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	91	91	91	91	71	71	71	53	53	53	36	36	36
1	92	87	83	80	82	78	75	72	61	59	56	45	44	42	30	29	29
2	83	76	70	64	74	68	63	58	53	49	46	39	37	34	26	25	23
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	20
4	69	58	51	45	61	52	46	40	41	36	32	30	27	24	20	18	17
5	63	52	44	38	56	46	39	34	36	31	27	27	24	21	18	16	14
6	58	46	38	32	52	41	35	30	33	27	24	24	21	18	16	14	12
7	54	41	34	28	48	37	30	26	29	24	21	22	18	16	15	13	11
8	50	37	30	25	44	34	27	22	27	22	18	20	16	14	14	11	10
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	13	10	9
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	12	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4787	4787	4787
5°	4809	4584	4558
10°	4777	4424	4360
15°	4709	4261	4158
20°	4624	4088	3965
25°	4541	3923	3791
30°	4423	3755	3618
35°	4303	3593	3491
40°	4177	3453	3366
45°	4058	3326	3256
50°	3931	3210	3147
55°	3797	3085	3037
60°	3632	2956	2921
65°	3459	2806	2787
70°	3265	2648	2645
75°	3015	2488	2509
80°	2627	2322	2367
85°	2232	2165	2248

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4058 cd/sqm

TEST NUMBER: P1008902

CATALOG NUMBER: S122DIP-B290D725UB27-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.8
10°-20°	82.2	2.2
20°-30°	124.6	3.4
30°-40°	151.7	4.1
40°-50°	163.2	4.5
50°-60°	158.5	4.3
60°-70°	138.4	3.8
70°-80°	106.6	2.9
80°-90°	73.9	2.0
90°-100°	104.7	2.9
100°-110°	212.3	5.8
110°-120°	325.5	8.9
120°-130°	410.1	11.2
130°-140°	451.1	12.3
140°-150°	437.8	11.9
150°-160°	366.5	10.0
160°-170°	243.1	6.6
170°-180°	84.9	2.3
0°-30°	235.5	6.4
0°-40°	387.2	10.6
0°-60°	709.0	19.4
0°-90°	1027.9	28.1
90°-120°	642.6	17.5
90°-150°	1941.6	53.0
90°-180°	2636.0	71.9
0°-180°	3664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	303	302	299	302	302	29
15°	289	290	290	294	294	81
25°	263	266	270	275	277	121
35°	227	234	242	252	255	142
45°	186	198	213	227	231	143
55°	142	158	181	197	202	127
65°	97	119	145	163	168	97
75°	54	78	106	125	131	57
85°	16	43	71	89	96	17
90°	5	40	84	100	106	6
95°	43	71	99	116	119	47
105°	165	180	204	221	226	174
115°	304	314	332	344	347	301
125°	441	448	460	470	473	395
135°	570	579	584	593	594	441
145°	692	697	702	705	704	432
155°	791	793	795	799	797	364
165°	860	860	860	865	861	243
175°	895	893	892	897	892	85
180°	897	897	897	897	897	

TEST NUMBER: P1008902

CATALOG NUMBER: S122DIP-B290D725UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	302.4	302.4	302.4	302.4	302.4
2.5°	304.6	303.3	300.2	302.4	301.6
5°	303.3	302.0	299.4	302.0	301.6
7.5°	301.1	300.2	298.1	301.1	300.7
10°	298.5	297.6	296.3	299.8	299.4
12.5°	294.1	294.5	293.7	297.2	296.7
15°	289.3	290.2	290.2	294.1	293.7
17.5°	283.2	284.9	286.2	290.2	290.2
20°	277.0	279.2	281.0	285.8	285.8
22.5°	270.4	273.1	275.7	280.5	281.4
25°	263.0	266.1	270.0	275.3	276.6
27.5°	254.2	259.0	263.4	270.0	270.9
30°	245.5	251.2	256.9	263.9	265.2
32.5°	235.8	242.4	249.4	257.7	260.4
35°	226.6	234.1	242.4	252.0	255.1
37.5°	216.5	224.9	235.4	245.9	249.0
40°	206.4	216.1	227.9	239.3	243.3
42.5°	196.8	206.4	220.5	233.2	237.1
45°	185.8	197.7	213.0	226.6	231.0
47.5°	175.3	188.0	205.6	219.6	224.4
50°	164.4	178.0	197.7	212.6	217.4
52.5°	153.8	168.3	189.4	204.7	210.0
55°	142.5	158.2	181.0	196.8	202.5
57.5°	131.5	149.0	171.8	188.9	194.6
60°	119.7	138.5	163.5	180.1	186.3
62.5°	109.1	128.9	153.8	171.8	177.5
65°	97.3	118.8	144.6	162.6	168.3
67.5°	86.8	109.1	135.4	153.4	159.5
70°	75.4	98.2	125.4	144.2	149.5
72.5°	64.9	88.5	116.2	134.6	141.1
75°	53.9	78.5	106.5	125.4	131.1
77.5°	43.4	68.8	97.3	116.2	122.3
80°	32.9	59.6	88.1	106.5	112.6
82.5°	24.1	50.4	79.3	97.7	103.4
85°	15.8	43.0	71.0	89.4	95.6
87.5°	9.6	35.9	64.0	82.0	87.7
90°	5.2	39.6	84.4	100.4	106.4
92.5°	20.6	49.9	77.4	95.2	100.5
95°	42.9	71.0	98.8	115.5	119.2
97.5°	68.9	94.6	123.0	139.3	144.5
100°	99.2	121.5	148.2	164.4	168.6
102.5°	130.5	149.5	176.3	192.7	196.9
105°	164.9	179.9	204.2	221.0	225.9
107.5°	199.7	213.3	235.2	250.8	251.9
110°	232.6	245.9	267.4	281.4	283.9

TEST NUMBER: P1008902

CATALOG NUMBER: S122DIP-B290D725UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.0	280.5	299.8	311.7	315.0
115°	304.5	313.9	332.1	344.4	347.0
117.5°	339.6	349.2	363.8	374.7	376.8
120°	375.2	383.0	394.5	406.8	409.3
122.5°	407.7	415.8	428.2	437.7	440.2
125°	441.4	448.2	459.9	469.5	472.7
127.5°	474.7	482.5	491.4	499.3	501.0
130°	505.7	515.1	522.7	531.8	532.3
132.5°	540.5	547.6	555.0	561.3	562.5
135°	570.3	578.6	584.5	593.0	594.2
137.5°	603.6	610.4	614.1	621.8	621.7
140°	633.1	639.5	644.2	651.2	650.8
142.5°	663.4	669.8	672.1	678.1	677.3
145°	691.8	697.1	701.6	705.0	704.1
147.5°	717.5	724.3	727.3	729.2	727.6
150°	744.0	748.5	751.5	753.8	751.5
152.5°	767.4	772.0	775.8	778.8	775.8
155°	790.9	793.2	795.4	799.2	797.0
157.5°	811.3	812.8	814.4	819.7	815.9
160°	829.5	831.0	831.8	836.3	833.3
162.5°	846.2	846.2	846.9	852.2	848.4
165°	860.5	859.8	859.8	865.1	861.3
167.5°	873.4	871.1	871.1	876.4	872.6
170°	883.2	881.0	880.2	885.5	881.0
172.5°	890.0	887.8	887.0	892.3	887.8
175°	895.3	893.1	891.6	896.9	892.3
177.5°	898.4	896.1	894.6	899.1	894.6
180°	896.9	896.9	896.9	896.9	896.9

(END OF REPORT)