

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: P1008984

Luminaire Tested: S122DIP-B290D925UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008984
REPORT IS A COMBINATION OF REPORTS P984114 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D925UB50-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

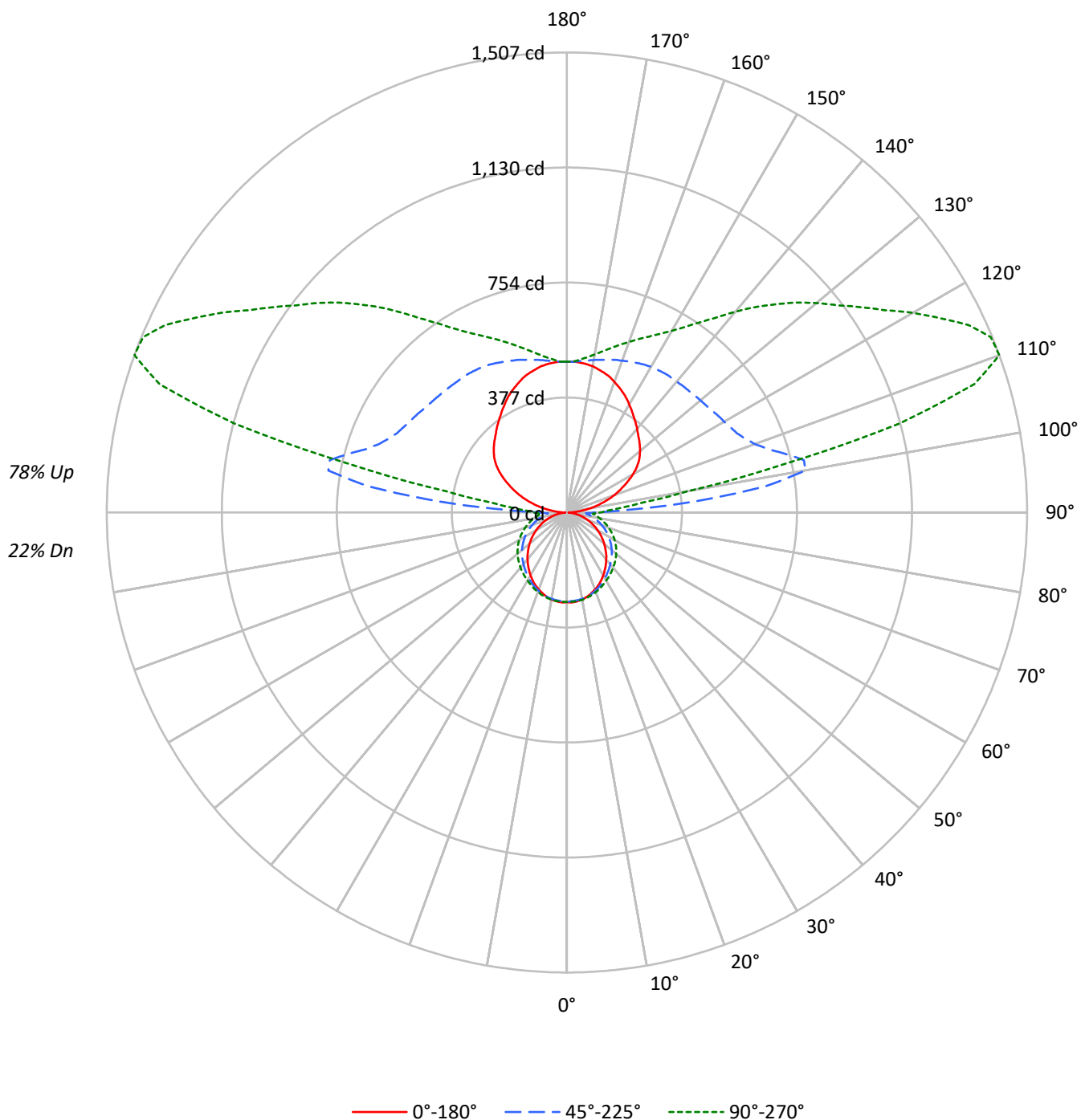
Lumens per Lamp: N/A
Luminaire Lumens: 4567.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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

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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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30
1	91	86	82	79	80	77	73	70	58	56	54	41	40	39	26	25	24
2	82	75	69	64	73	66	61	57	51	47	44	36	34	32	22	21	20
3	75	66	58	53	66	58	52	47	44	40	37	31	29	26	19	18	17
4	68	58	50	44	60	51	45	40	39	35	31	28	25	22	17	15	14
5	62	51	43	37	55	45	39	34	35	30	26	25	22	19	15	14	12
6	57	46	38	32	51	41	34	29	31	26	23	22	19	17	14	12	11
7	53	41	33	28	47	37	30	25	28	23	20	20	17	14	13	11	9
8	49	37	29	24	43	33	27	22	25	21	17	18	15	13	11	10	8
9	45	34	26	21	40	30	24	19	23	19	15	17	14	11	11	9	7
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	10	8	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4643	4643	4643
5°	4663	4444	4419
10°	4631	4290	4228
15°	4566	4131	4032
20°	4484	3963	3845
25°	4402	3803	3676
30°	4288	3641	3508
35°	4172	3483	3386
40°	4052	3348	3264
45°	3936	3226	3157
50°	3812	3112	3052
55°	3680	2991	2946
60°	3520	2866	2832
65°	3356	2723	2703
70°	3166	2568	2563
75°	2926	2413	2433
80°	2547	2250	2296
85°	2161	2101	2180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	0.6
10°-20°	79.7	1.7
20°-30°	120.8	2.6
30°-40°	147.1	3.2
40°-50°	158.3	3.5
50°-60°	153.7	3.4
60°-70°	134.3	2.9
70°-80°	103.3	2.3
80°-90°	72.4	1.6
90°-100°	248.1	5.4
100°-110°	712.0	15.6
110°-120°	734.8	16.1
120°-130°	598.1	13.1
130°-140°	475.7	10.4
140°-150°	356.2	7.8
150°-160°	249.8	5.5
160°-170°	147.1	3.2
170°-180°	47.8	1.0
0°-30°	228.3	5.0
0°-40°	375.5	8.2
0°-60°	687.5	15.1
0°-90°	997.4	21.8
90°-120°	1694.8	37.1
90°-150°	3124.9	68.4
90°-180°	3570.0	78.2
0°-180°	4567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	293	293	293	293	293	
5°	294	293	290	293	292	28
15°	280	281	281	285	285	79
25°	255	258	262	267	268	117
35°	220	227	235	244	247	137
45°	180	192	207	220	224	139
55°	138	153	176	191	196	124
65°	94	115	140	158	163	94
75°	52	76	103	122	127	55
85°	15	42	69	87	93	16
90°	5	42	88	104	110	5
95°	37	105	421	206	178	37
105°	118	189	741	1310	1127	126
115°	206	264	615	1254	1452	204
125°	286	338	581	1011	1173	254
135°	335	400	564	841	964	259
145°	382	439	557	694	761	240
155°	434	469	541	611	636	200
165°	473	487	518	549	558	133
175°	493	494	498	504	503	47
180°	494	494	494	494	494	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	293.3	293.3	293.3	293.3	293.3
2.5°	295.4	294.1	291.1	293.3	292.4
5°	294.1	292.8	290.3	292.8	292.4
7.5°	292.0	291.1	289.0	292.0	291.6
10°	289.4	288.6	287.3	290.7	290.3
12.5°	285.2	285.6	284.8	288.2	287.7
15°	280.5	281.4	281.4	285.2	284.8
17.5°	274.6	276.3	277.5	281.4	281.4
20°	268.6	270.7	272.4	277.1	277.1
22.5°	262.2	264.8	267.3	272.0	272.9
25°	255.0	258.0	261.8	266.9	268.2
27.5°	246.5	251.2	255.4	261.8	262.7
30°	238.0	243.5	249.1	255.9	257.1
32.5°	228.7	235.0	241.8	249.9	252.5
35°	219.7	227.0	235.0	244.4	247.4
37.5°	210.0	218.0	228.2	238.4	241.4
40°	200.2	209.5	221.0	232.1	235.9
42.5°	190.8	200.2	213.8	226.1	229.9
45°	180.2	191.7	206.6	219.7	224.0
47.5°	170.0	182.3	199.3	212.9	217.6
50°	159.4	172.6	191.7	206.1	210.8
52.5°	149.2	163.2	183.6	198.5	203.6
55°	138.1	153.4	175.5	190.8	196.4
57.5°	127.5	144.5	166.6	183.2	188.7
60°	116.0	134.3	158.5	174.7	180.6
62.5°	105.8	125.0	149.2	166.6	172.1
65°	94.4	115.2	140.3	157.7	163.2
67.5°	84.2	105.8	131.3	148.8	154.7
70°	73.1	95.2	121.6	139.8	144.9
72.5°	62.9	85.9	112.6	130.5	136.9
75°	52.3	76.1	103.3	121.6	127.1
77.5°	42.1	66.7	94.4	112.6	118.6
80°	31.9	57.8	85.4	103.3	109.2
82.5°	23.4	48.9	76.9	94.8	100.3
85°	15.3	41.7	68.9	86.7	92.7
87.5°	9.4	34.9	62.1	79.5	85.0
90°	5.3	41.8	88.4	104.0	109.6
92.5°	18.1	71.6	198.6	136.4	132.0
95°	36.7	105.1	421.4	205.6	178.4
97.5°	52.4	129.2	653.1	343.8	248.2
100°	76.2	150.8	793.1	620.2	403.1
102.5°	97.6	170.5	794.9	1005.0	722.7
105°	118.0	189.3	740.7	1309.9	1126.9
107.5°	140.8	208.0	690.2	1418.1	1398.1
110°	163.2	227.3	655.3	1396.6	1506.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	184.1	246.0	631.5	1332.5	1502.0
115°	206.0	264.3	614.6	1254.0	1452.0
117.5°	228.4	283.1	604.0	1179.3	1378.3
120°	249.3	301.4	594.8	1111.8	1307.9
122.5°	269.2	320.5	588.4	1058.9	1233.7
125°	285.9	338.2	580.8	1010.8	1172.8
127.5°	300.2	355.3	575.3	968.8	1115.3
130°	312.6	371.0	570.9	927.0	1067.2
132.5°	324.0	386.2	567.4	883.6	1017.7
135°	334.9	399.5	564.3	841.2	964.3
137.5°	345.3	410.8	562.2	798.2	912.5
140°	357.7	421.0	559.6	760.2	858.7
142.5°	370.0	429.5	558.7	723.9	805.3
145°	382.0	439.0	556.8	693.8	761.0
147.5°	395.3	446.6	553.9	667.4	721.0
150°	408.6	454.2	551.1	646.2	687.0
152.5°	421.9	461.8	546.3	628.6	659.4
155°	434.2	468.9	540.6	611.4	635.7
157.5°	444.7	474.6	534.9	595.3	614.8
160°	455.1	480.3	529.2	579.2	594.8
162.5°	465.6	484.6	524.5	563.9	575.8
165°	473.2	487.4	517.8	549.2	557.7
167.5°	479.8	490.3	512.1	535.9	540.6
170°	486.5	491.7	507.4	523.6	525.4
172.5°	490.3	493.2	501.7	512.6	513.1
175°	493.1	493.6	497.9	504.0	502.6
177.5°	495.0	494.1	494.1	497.9	495.0
180°	494.1	494.1	494.1	494.1	494.1

(END OF REPORT)