

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: P1008762

Luminaire Tested: S122DIP-B1005D925UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008762
REPORT IS A COMBINATION OF REPORTS P983814 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D925UB50-4F0-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

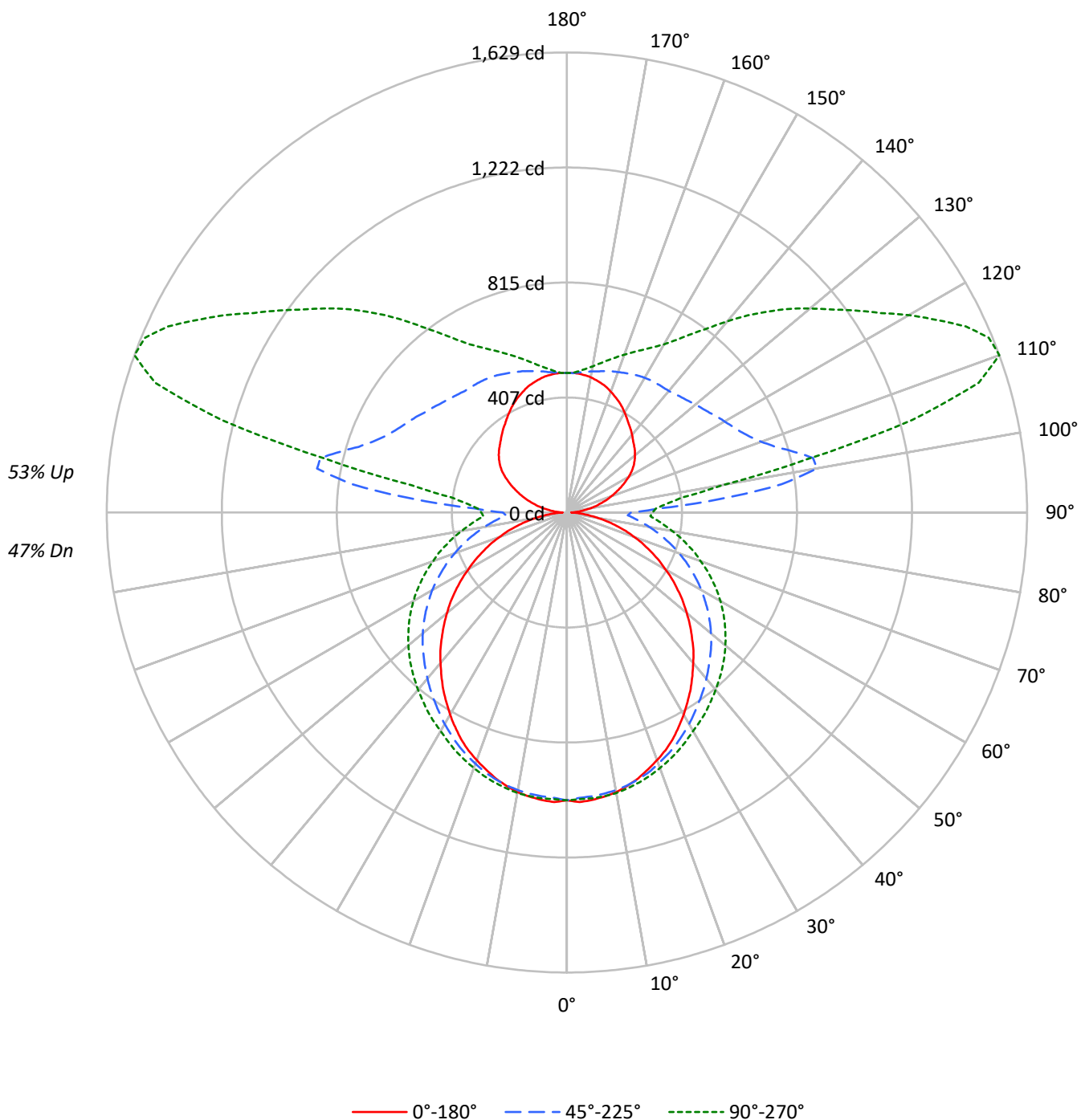
Lumens per Lamp: N/A
Luminaire Lumens: 7336.0 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53
1	96	91	86	82	88	83	80	76	70	67	64	57	55	53	45	44	42
2	87	78	72	66	79	72	66	61	60	56	52	49	46	43	39	37	35
3	79	69	61	54	72	63	56	51	53	47	43	43	39	36	34	31	29
4	72	60	52	46	65	55	48	42	46	41	36	38	34	30	30	27	24
5	66	54	45	39	60	49	42	36	41	35	31	34	29	26	27	24	21
6	60	48	39	33	55	44	37	31	37	31	27	30	26	23	24	21	18
7	56	43	35	29	51	40	32	27	33	28	23	28	23	20	22	19	16
8	52	39	31	26	47	36	29	24	30	25	21	25	21	18	20	17	14
9	48	36	28	23	44	33	26	21	28	22	18	23	19	16	19	15	13
10	45	32	25	20	41	30	23	19	26	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16130	16130	16130
5°	16202	15441	15354
10°	16094	14906	14688
15°	15867	14353	14006
20°	15580	13772	13358
25°	15298	13216	12771
30°	14901	12651	12190
35°	14500	12105	11764
40°	14078	11634	11339
45°	13674	11207	10970
50°	13243	10813	10604
55°	12787	10395	10233
60°	12235	9958	9842
65°	11653	9457	9392
70°	11000	8921	8909
75°	10159	8383	8452
80°	8846	7821	7978
85°	7515	7294	7570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.3
10°-20°	277.0	3.8
20°-30°	419.8	5.7
30°-40°	511.2	7.0
40°-50°	550.0	7.5
50°-60°	534.1	7.3
60°-70°	466.4	6.4
70°-80°	359.0	4.9
80°-90°	243.6	3.3
90°-100°	366.2	5.0
100°-110°	798.3	10.9
110°-120°	791.7	10.8
120°-130°	629.8	8.6
130°-140°	489.1	6.7
140°-150°	358.5	4.9
150°-160°	249.8	3.4
160°-170°	147.1	2.0
170°-180°	47.8	0.7
0°-30°	793.4	10.8
0°-40°	1304.6	17.8
0°-60°	2388.7	32.6
0°-90°	3457.7	47.1
90°-120°	1956.2	26.7
90°-150°	3433.5	46.8
90°-180°	3878.0	52.9
0°-180°	7336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1022	1018	1009	1018	1016	97
15°	975	978	978	991	989	275
25°	886	896	910	927	932	407
35°	764	789	817	849	860	477
45°	626	666	718	764	778	483
55°	480	533	610	663	682	429
65°	328	400	487	548	567	326
75°	182	264	359	422	442	192
85°	53	145	239	301	322	56
90°	16	113	227	285	303	13
95°	45	163	542	366	352	44
105°	123	225	831	1437	1266	132
115°	210	280	678	1349	1558	208
125°	288	340	616	1075	1246	257
135°	336	401	576	875	1006	260
145°	382	439	557	700	772	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°	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1026.3	1021.9	1011.6	1019.0	1016.0
5°	1021.9	1017.5	1008.6	1017.5	1016.0
7.5°	1014.5	1011.6	1004.2	1014.5	1013.1
10°	1005.7	1002.7	998.3	1010.1	1008.6
12.5°	990.9	992.4	989.4	1001.2	999.8
15°	974.7	977.6	977.6	990.9	989.4
17.5°	954.0	959.9	964.3	977.6	977.6
20°	933.3	940.7	946.6	962.8	962.8
22.5°	911.2	920.0	928.9	945.1	948.1
25°	886.1	896.4	909.7	927.4	931.8
27.5°	856.5	872.8	887.5	909.7	912.6
30°	827.0	846.2	865.4	889.0	893.4
32.5°	794.5	816.6	840.3	868.3	877.2
35°	763.5	788.6	816.6	849.1	859.5
37.5°	729.5	757.6	793.0	828.5	838.8
40°	695.6	728.0	767.9	806.3	819.6
42.5°	663.1	695.6	742.8	785.6	798.9
45°	626.1	666.0	717.7	763.5	778.3
47.5°	590.7	633.5	692.6	739.9	756.1
50°	553.8	599.6	666.0	716.2	732.5
52.5°	518.3	567.1	638.0	689.6	707.4
55°	479.9	533.1	609.9	663.1	682.3
57.5°	443.0	502.1	578.9	636.5	655.7
60°	403.2	466.7	550.8	606.9	627.6
62.5°	367.7	434.2	518.3	578.9	598.1
65°	327.8	400.2	487.3	547.9	567.1
67.5°	292.4	367.7	456.3	516.9	537.5
70°	254.0	330.8	422.4	485.9	503.6
72.5°	218.6	298.3	391.3	453.4	475.5
75°	181.6	264.3	358.9	422.4	441.6
77.5°	146.2	231.9	327.8	391.3	412.0
80°	110.8	200.8	296.8	358.9	379.5
82.5°	81.2	169.8	267.3	329.3	348.5
85°	53.2	144.7	239.2	301.3	321.9
87.5°	32.5	121.1	215.6	276.2	295.4
90°	15.8	113.2	227.2	284.9	303.1
92.5°	27.6	136.8	327.9	306.7	315.0
95°	45.1	162.9	542.3	366.5	352.0
97.5°	59.7	181.6	766.7	496.3	413.4
100°	83.5	197.1	898.3	764.3	558.8
102.5°	103.9	211.5	892.7	1140.6	869.9
105°	123.3	225.0	831.1	1437.2	1265.7
107.5°	146.1	238.5	773.3	1537.0	1528.5
110°	167.4	252.5	732.1	1507.1	1628.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.3	267.0	700.9	1435.5	1616.7
115°	210.2	280.2	677.7	1348.6	1558.3
117.5°	231.5	294.6	659.8	1266.6	1476.1
120°	252.4	308.7	644.2	1190.6	1398.3
122.5°	272.3	324.7	631.5	1130.4	1314.7
125°	288.0	340.3	616.5	1075.0	1246.4
127.5°	302.3	356.4	604.7	1024.6	1180.5
130°	314.7	372.1	594.0	975.4	1123.9
132.5°	326.1	387.3	584.2	924.6	1067.1
135°	336.0	400.6	575.8	874.9	1006.4
137.5°	346.4	412.0	568.5	824.6	946.2
140°	358.8	421.0	561.7	779.1	883.9
142.5°	371.1	429.5	558.7	736.5	823.2
145°	382.0	439.0	556.8	700.2	772.5
147.5°	395.3	446.6	553.9	668.6	725.2
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)