

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: P1008726

Luminaire Tested: S122DIP-B1005D925UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008726
REPORT IS A COMBINATION OF REPORTS P983763 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D925UB27-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

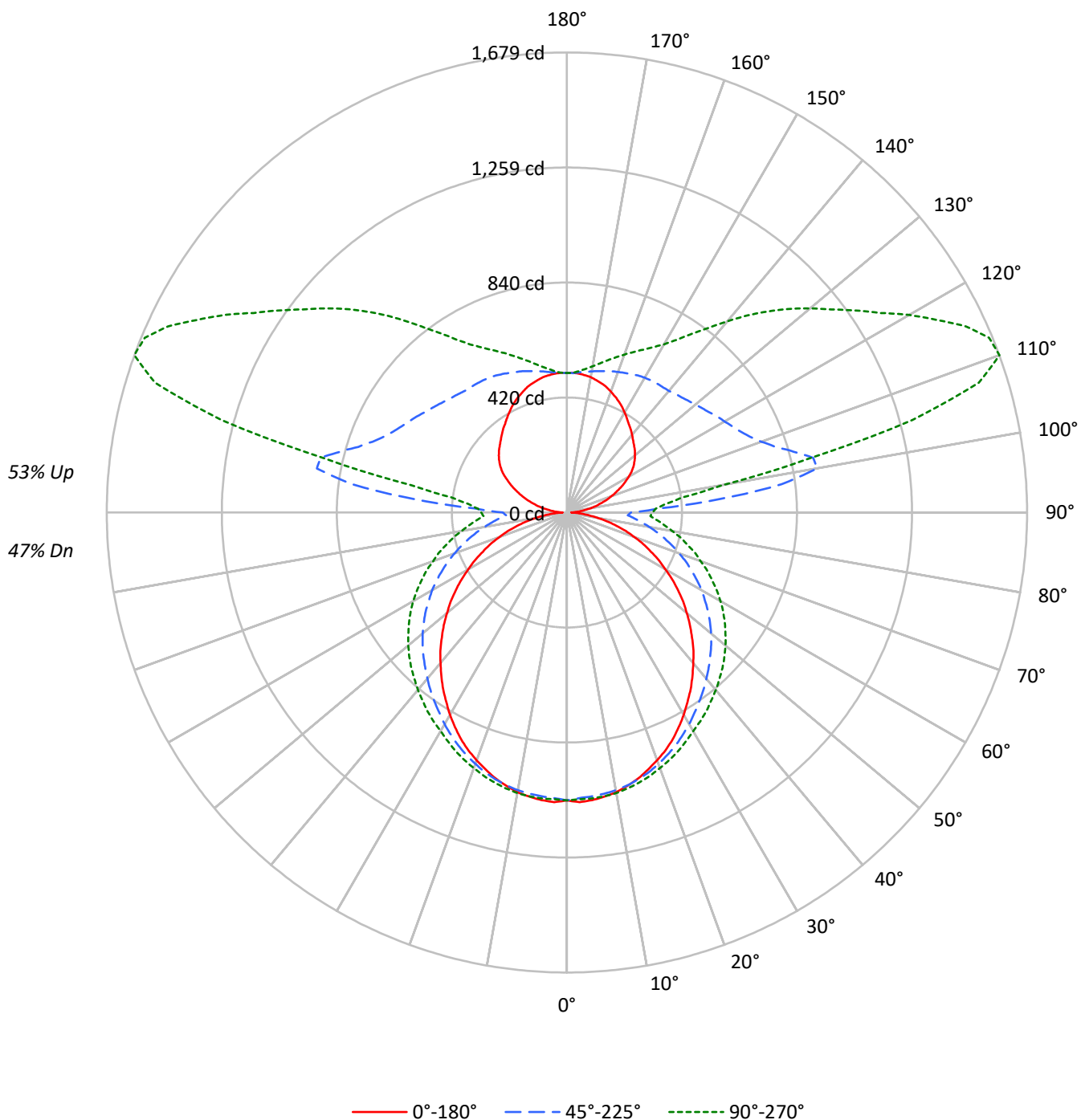
Lumens per Lamp: N/A
Luminaire Lumens: 7564.1 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	106	106	106	106	98	98	98	98	82	82	82		67	67	67		53
1	96	91	86	82	88	83	80	76	70	67	64		57	55	53		45
2	87	78	72	66	79	72	66	61	60	56	52		49	46	43		39
3	79	69	61	54	72	63	56	51	53	47	43		43	39	36		34
4	72	60	52	46	65	55	48	42	46	41	36		38	34	30		30
5	66	54	45	39	60	49	42	36	41	35	31		34	29	26		27
6	60	48	39	33	55	44	37	31	37	31	27		30	26	23		24
7	56	43	35	29	51	40	32	27	33	28	23		28	23	20		22
8	52	39	31	26	47	36	29	24	30	25	21		25	21	18		20
9	48	36	28	23	44	33	26	21	28	22	18		23	19	16		19
10	45	32	25	20	41	30	23	19	26	20	17		21	17	14		17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16632	16632	16632
5°	16706	15921	15831
10°	16595	15371	15146
15°	16360	14799	14442
20°	16066	14201	13775
25°	15773	13627	13169
30°	15364	13044	12569
35°	14950	12483	12129
40°	14515	11997	11692
45°	14100	11555	11311
50°	13655	11149	10935
55°	13187	10718	10551
60°	12614	10269	10149
65°	12016	9752	9684
70°	11342	9198	9185
75°	10478	8643	8715
80°	9117	8066	8226
85°	7741	7522	7807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.3
10°-20°	285.7	3.8
20°-30°	432.8	5.7
30°-40°	527.1	7.0
40°-50°	567.1	7.5
50°-60°	550.7	7.3
60°-70°	481.0	6.4
70°-80°	370.2	4.9
80°-90°	251.2	3.3
90°-100°	377.6	5.0
100°-110°	823.1	10.9
110°-120°	816.3	10.8
120°-130°	649.4	8.6
130°-140°	504.2	6.7
140°-150°	369.6	4.9
150°-160°	257.5	3.4
160°-170°	151.6	2.0
170°-180°	49.3	0.7
0°-30°	818.1	10.8
0°-40°	1345.2	17.8
0°-60°	2463.0	32.6
0°-90°	3565.3	47.1
90°-120°	2017.0	26.7
90°-150°	3540.2	46.8
90°-180°	3999.0	52.9
0°-180°	7564.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1054	1049	1040	1049	1048	100
15°	1005	1008	1008	1022	1020	283
25°	914	924	938	956	961	420
35°	787	813	842	876	886	492
45°	646	687	740	787	802	498
55°	495	550	629	684	704	443
65°	338	413	502	565	585	336
75°	187	273	370	436	455	198
85°	55	149	247	311	332	58
90°	16	117	234	294	312	13
95°	46	168	559	378	363	45
105°	127	232	857	1482	1305	136
115°	217	289	699	1391	1607	214
125°	297	351	636	1108	1285	265
135°	346	413	594	902	1038	268
145°	394	453	574	722	796	247
155°	448	483	557	630	655	206
165°	488	503	534	566	575	138
175°	508	509	513	520	518	48
180°	509	509	509	509	509	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1058.3	1053.7	1043.1	1050.7	1047.6
5°	1053.7	1049.2	1040.0	1049.2	1047.6
7.5°	1046.1	1043.1	1035.4	1046.1	1044.6
10°	1037.0	1033.9	1029.4	1041.5	1040.0
12.5°	1021.7	1023.3	1020.2	1032.4	1030.9
15°	1005.0	1008.0	1008.0	1021.7	1020.2
17.5°	983.7	989.8	994.3	1008.0	1008.0
20°	962.4	970.0	976.1	992.8	992.8
22.5°	939.5	948.7	957.8	974.5	977.6
25°	913.6	924.3	938.0	956.3	960.8
27.5°	883.2	899.9	915.2	938.0	941.0
30°	852.7	872.5	892.3	916.7	921.2
32.5°	819.2	842.1	866.4	895.4	904.5
35°	787.2	813.1	842.1	875.6	886.2
37.5°	752.2	781.2	817.7	854.2	864.9
40°	717.2	750.7	791.8	831.4	845.1
42.5°	683.7	717.2	765.9	810.1	823.8
45°	645.6	686.7	740.0	787.2	802.5
47.5°	609.1	653.2	714.2	762.9	779.6
50°	571.0	618.2	686.7	738.5	755.3
52.5°	534.5	584.7	657.8	711.1	729.4
55°	494.9	549.7	628.9	683.7	703.5
57.5°	456.8	517.7	596.9	656.3	676.1
60°	415.7	481.2	568.0	625.8	647.2
62.5°	379.2	447.7	534.5	596.9	616.7
65°	338.0	412.7	502.5	564.9	584.7
67.5°	301.5	379.2	470.5	533.0	554.3
70°	261.9	341.1	435.5	501.0	519.2
72.5°	225.4	307.6	403.5	467.5	490.3
75°	187.3	272.6	370.0	435.5	455.3
77.5°	150.7	239.1	338.0	403.5	424.8
80°	114.2	207.1	306.1	370.0	391.3
82.5°	83.7	175.1	275.6	339.6	359.4
85°	54.8	149.2	246.7	310.6	332.0
87.5°	33.5	124.9	222.3	284.7	304.5
90°	16.2	116.8	234.3	293.7	312.5
92.5°	28.4	140.9	338.2	316.2	324.8
95°	46.5	168.0	559.1	378.0	362.9
97.5°	61.6	187.3	790.5	511.8	426.2
100°	86.1	203.2	926.3	788.1	576.1
102.5°	107.1	218.1	920.4	1176.1	897.0
105°	127.1	232.0	856.9	1481.8	1305.1
107.5°	150.6	246.0	797.3	1584.8	1576.0
110°	172.6	260.4	754.9	1554.0	1679.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	194.2	275.4	722.6	1480.1	1666.9
115°	216.7	288.8	698.8	1390.6	1606.7
117.5°	238.7	303.8	680.3	1305.9	1522.0
120°	260.3	318.3	664.3	1227.6	1441.8
122.5°	280.9	334.8	651.2	1165.5	1355.5
125°	296.9	350.8	635.7	1108.4	1285.2
127.5°	311.6	367.4	623.6	1056.5	1217.1
130°	324.3	383.6	612.5	1005.6	1158.9
132.5°	336.1	399.2	602.4	953.4	1100.3
135°	346.3	413.0	593.7	902.0	1037.6
137.5°	357.1	424.8	586.1	850.3	975.5
140°	369.9	434.0	579.1	803.4	911.4
142.5°	382.6	442.8	576.1	759.4	848.8
145°	393.8	452.6	574.1	721.8	796.5
147.5°	407.5	460.4	571.2	689.2	747.7
150°	421.3	468.3	568.2	666.2	708.3
152.5°	435.0	476.2	563.3	648.0	679.9
155°	447.7	483.4	557.4	630.4	655.4
157.5°	458.5	489.4	551.6	613.8	633.9
160°	469.3	495.2	545.7	597.1	613.3
162.5°	480.0	499.6	540.8	581.4	593.7
165°	487.9	502.6	533.9	566.2	575.1
167.5°	494.7	505.6	528.1	552.6	557.4
170°	501.6	507.0	523.2	539.8	541.8
172.5°	505.5	508.4	517.3	528.6	529.0
175°	508.5	509.0	513.4	519.7	518.3
177.5°	510.4	509.4	509.4	513.4	510.4
180°	509.4	509.4	509.4	509.4	509.4

(END OF REPORT)