

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: P1008725

Luminaire Tested: S122DIP-B1005D925UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008725
REPORT IS A COMBINATION OF REPORTS P983762 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D925UB27-4F0-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

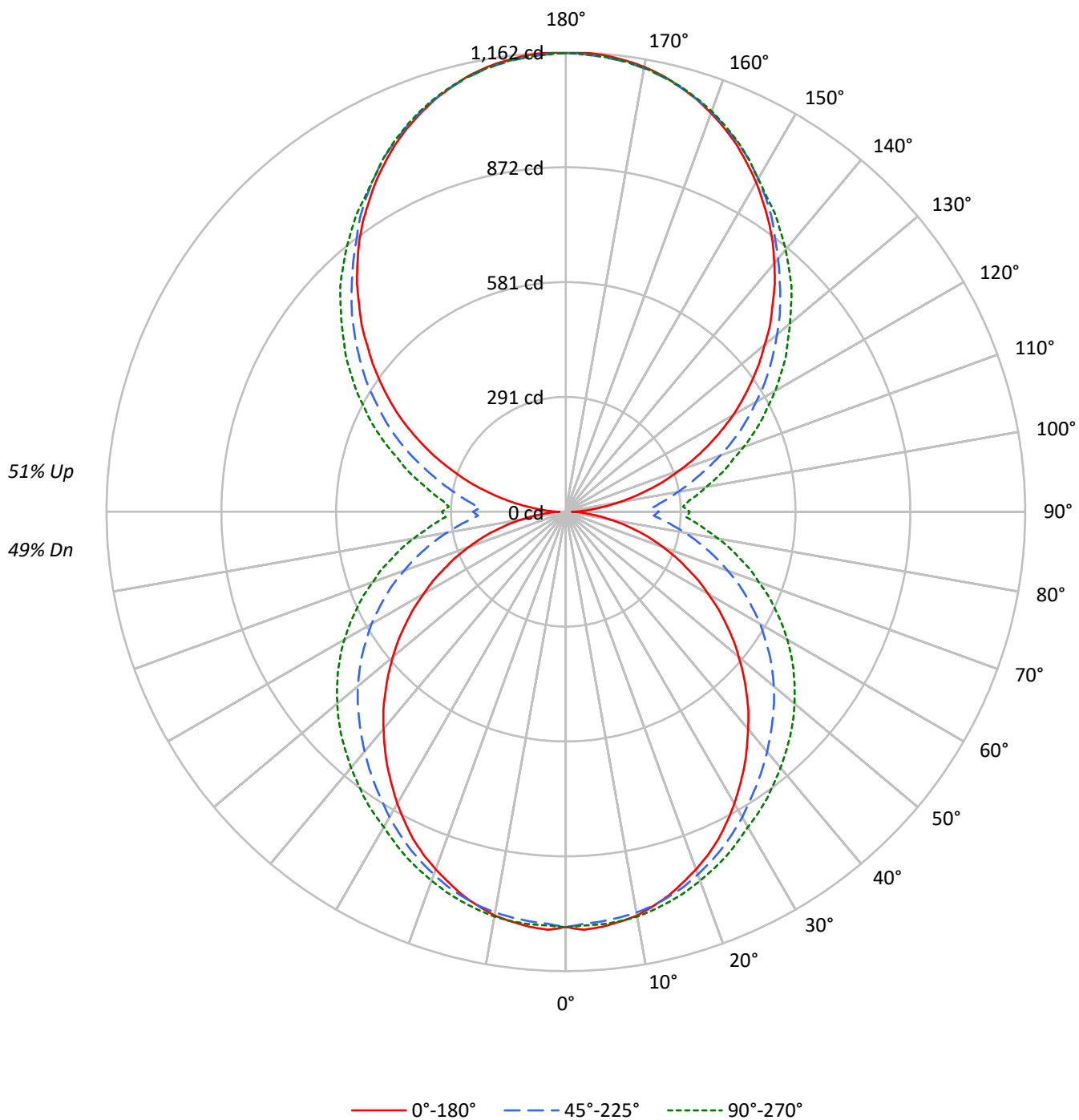
Lumens per Lamp: N/A
Luminaire Lumens: 7257.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	107	107	107	107	99	99	99	99	83	83	83		69	69	69		55
1	96	91	87	83	88	84	80	77	70	68	65		58	56	54		47
2	87	79	72	66	80	73	67	62	61	56	53		50	47	44		40
3	79	69	61	55	72	63	56	51	53	48	44		44	40	37		35
4	72	61	52	46	66	56	48	43	47	41	37		39	34	31		31
5	66	54	45	39	60	50	42	36	42	36	31		35	30	26		28
6	61	48	40	33	55	44	37	31	38	32	27		31	27	23		25
7	56	43	35	29	51	40	33	27	34	28	24		28	24	20		23
8	52	39	31	26	48	36	29	24	31	25	21		26	21	18		21
9	48	36	28	23	44	33	26	21	28	23	19		24	19	16		19
10	45	33	25	20	41	30	24	19	26	21	17		22	17	14		18

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	1.4
10°-20°	285.7	3.9
20°-30°	432.8	6.0
30°-40°	527.1	7.3
40°-50°	567.1	7.8
50°-60°	550.7	7.6
60°-70°	481.0	6.6
70°-80°	370.2	5.1
80°-90°	251.2	3.5
90°-100°	242.8	3.3
100°-110°	353.1	4.9
110°-120°	473.0	6.5
120°-130°	559.5	7.7
130°-140°	595.8	8.2
140°-150°	568.6	7.8
150°-160°	474.2	6.5
160°-170°	314.5	4.3
170°-180°	109.9	1.5
0°-30°	818.1	11.3
0°-40°	1345.2	18.5
0°-60°	2463.0	33.9
0°-90°	3565.4	49.1
90°-120°	1069.0	14.7
90°-150°	2792.9	38.5
90°-180°	3692.0	50.9
0°-180°	7257.0	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	116	235	294	314	14
95°	63	144	238	296	312	66
105°	218	265	346	402	418	231
115°	398	420	487	532	546	393
125°	573	582	628	666	679	513
135°	739	750	767	798	807	571
145°	895	902	908	918	922	560
155°	1023	1026	1029	1034	1031	471
165°	1114	1113	1113	1119	1114	314
175°	1159	1156	1154	1161	1155	110
180°	1161	1161	1161	1161	1161	

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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	116.2	235.3	294.2	313.5
92.5°	35.2	123.8	217.7	278.0	296.3
95°	63.1	144.4	237.8	295.7	311.9
97.5°	95.9	170.1	262.4	318.7	337.0
100°	135.1	199.2	287.5	343.8	359.6
102.5°	174.6	230.8	316.9	372.7	388.5
105°	218.2	265.3	346.5	401.6	418.4
107.5°	263.2	303.7	379.8	432.6	444.4
110°	304.8	341.1	415.8	464.5	478.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	351.8	382.1	451.1	496.9	511.7
115°	397.8	420.4	487.1	531.7	545.5
117.5°	442.4	462.3	521.4	564.2	576.4
120°	488.4	502.3	555.4	598.0	611.9
122.5°	530.5	541.8	593.2	631.4	643.1
125°	573.0	581.8	627.7	665.8	678.6
127.5°	616.1	625.4	662.5	696.7	707.5
130°	656.2	667.5	697.5	732.1	740.3
132.5°	701.3	709.6	733.5	763.6	772.8
135°	739.0	749.7	766.9	797.9	807.2
137.5°	782.1	790.9	800.4	828.5	835.1
140°	820.3	827.6	835.5	859.9	865.0
142.5°	859.4	866.7	869.7	889.0	892.6
145°	895.1	902.0	907.9	918.0	921.6
147.5°	928.4	937.3	941.2	944.6	945.3
150°	962.7	968.6	972.5	975.5	972.5
152.5°	993.1	999.0	1003.9	1007.8	1003.9
155°	1023.4	1026.4	1029.3	1034.2	1031.3
157.5°	1049.9	1051.8	1053.8	1060.7	1055.8
160°	1073.4	1075.4	1076.3	1082.2	1078.3
162.5°	1094.9	1094.9	1095.9	1102.8	1097.9
165°	1113.5	1112.6	1112.6	1119.4	1114.5
167.5°	1130.2	1127.3	1127.3	1134.1	1129.2
170°	1142.9	1140.0	1139.0	1145.9	1140.0
172.5°	1151.7	1148.8	1147.8	1154.7	1148.8
175°	1158.6	1155.7	1153.7	1160.6	1154.7
177.5°	1162.5	1159.6	1157.6	1163.5	1157.6
180°	1160.6	1160.6	1160.6	1160.6	1160.6

(END OF REPORT)