

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: P1008760

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008760
REPORT IS A COMBINATION OF REPORTS P983812 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-D
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

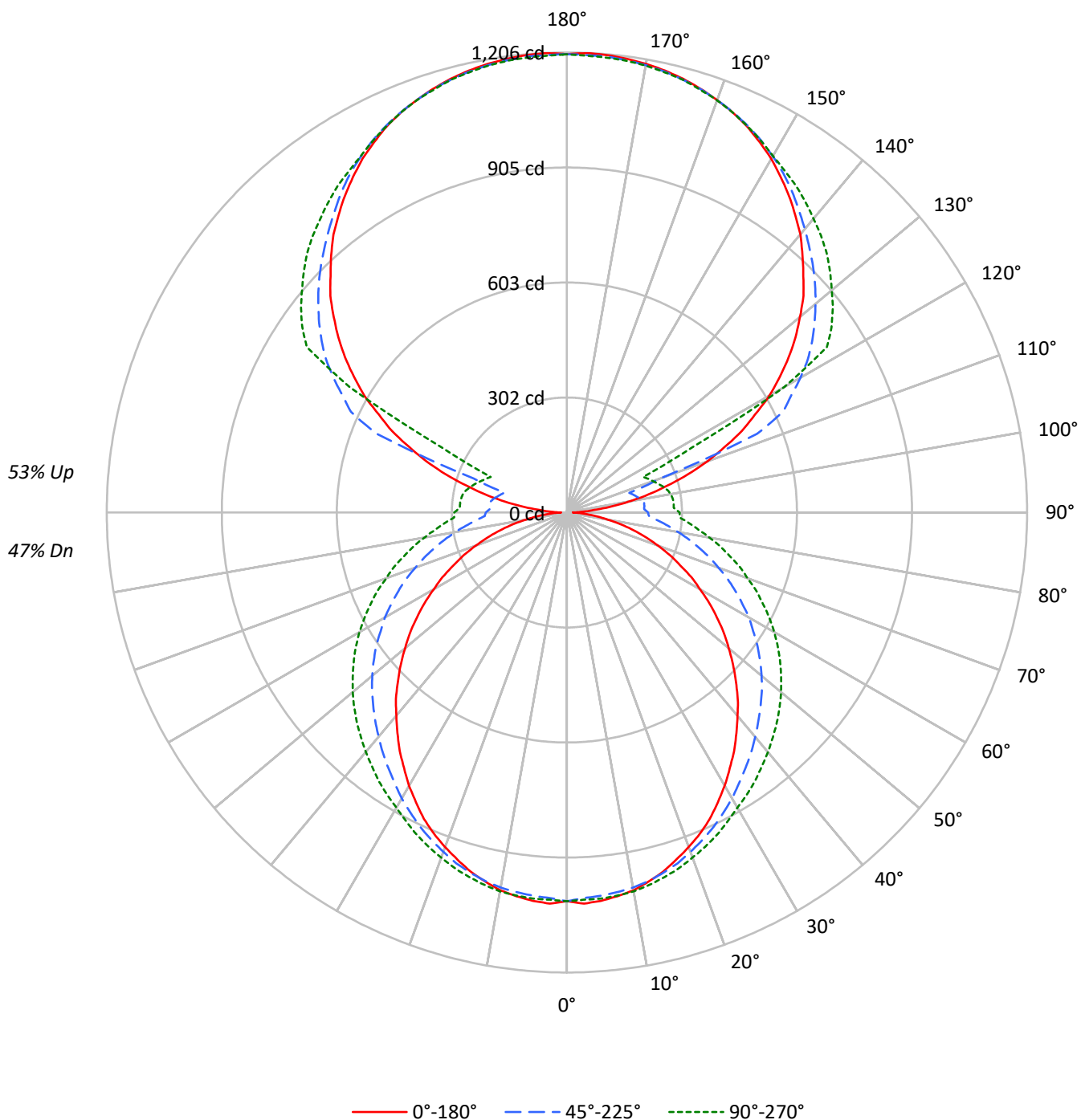
Lumens per Lamp: N/A
Luminaire Lumens: 7412.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	81	81	81		67	67	67		53
1	96	91	86	82	87	83	79	76	69	67	64		56	54	53		45
2	86	78	72	66	79	72	66	61	60	56	52		49	46	43		38
3	79	68	61	54	72	63	56	51	52	47	43		43	39	36		34
4	72	60	52	46	65	55	48	42	46	41	36		38	34	30		30
5	66	53	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	22		24
7	56	43	35	29	51	40	32	27	33	28	23		27	23	20		22
8	52	39	31	26	47	36	29	24	30	25	21		25	21	17		20
9	48	35	28	23	44	33	26	21	28	22	18		23	19	16		19
10	45	32	25	20	41	30	23	19	26	20	16		21	17	14		17

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	3.7
20°-30°	419.8	5.7
30°-40°	511.2	6.9
40°-50°	550.0	7.4
50°-60°	534.1	7.2
60°-70°	466.4	6.3
70°-80°	359.0	4.8
80°-90°	242.6	3.3
90°-100°	205.5	2.8
100°-110°	268.8	3.6
110°-120°	471.6	6.4
120°-130°	694.1	9.4
130°-140°	708.7	9.6
140°-150°	644.4	8.7
150°-160°	515.6	7.0
160°-170°	332.2	4.5
170°-180°	114.3	1.5
0°-30°	793.4	10.7
0°-40°	1304.6	17.6
0°-60°	2388.7	32.2
0°-90°	3456.7	46.6
90°-120°	945.9	12.8
90°-150°	2993.2	40.4
90°-180°	3955.0	53.4
0°-180°	7412.0	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	111	212	276	295	14
95°	68	109	204	264	281	76
105°	272	340	180	241	261	291
115°	506	537	625	267	220	497
125°	710	721	785	831	847	633
135°	876	890	912	952	962	677
145°	1014	1014	1028	1043	1046	635
155°	1117	1109	1120	1125	1118	515
165°	1177	1172	1174	1180	1174	333
175°	1204	1198	1200	1206	1197	115
180°	1201	1201	1201	1201	1201	

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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°	15.7	110.8	212.3	275.7	295.2
92.5°	35.0	109.9	202.5	261.8	280.5
95°	68.3	109.0	203.7	264.1	281.1
97.5°	112.0	104.2	203.8	261.0	279.7
100°	164.2	99.8	197.2	258.8	276.8
102.5°	220.1	267.1	188.6	251.3	270.2
105°	271.7	340.5	180.0	241.3	261.0
107.5°	333.4	390.5	171.5	231.2	250.9
110°	391.0	438.7	259.9	220.3	240.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.6	485.9	539.1	211.6	230.5
115°	505.7	536.8	624.9	266.8	220.5
117.5°	555.5	584.7	661.6	581.6	368.5
120°	612.9	631.8	706.6	758.4	657.3
122.5°	661.6	677.0	749.0	794.1	808.2
125°	709.7	721.0	784.7	830.7	846.6
127.5°	754.9	765.6	818.4	864.1	878.3
130°	797.5	809.9	850.5	895.4	906.4
132.5°	841.0	850.8	882.4	924.3	935.2
135°	876.0	889.9	912.4	952.2	962.3
137.5°	914.2	924.7	940.8	977.5	985.2
140°	951.6	957.1	969.6	1001.1	1005.5
142.5°	982.9	987.5	998.8	1023.4	1026.5
145°	1014.4	1013.6	1028.3	1043.3	1046.3
147.5°	1043.1	1040.5	1055.3	1061.1	1062.1
150°	1070.9	1064.9	1078.8	1084.0	1079.6
152.5°	1094.4	1087.5	1100.5	1105.7	1099.6
155°	1117.0	1109.2	1119.6	1124.8	1117.9
157.5°	1135.3	1128.3	1136.1	1142.2	1135.3
160°	1150.9	1145.7	1150.9	1156.1	1150.0
162.5°	1164.8	1159.6	1164.0	1170.0	1162.2
165°	1177.0	1171.8	1174.4	1180.5	1174.4
167.5°	1186.6	1181.3	1183.9	1190.0	1182.2
170°	1194.4	1189.2	1190.9	1197.0	1189.2
172.5°	1199.6	1194.4	1196.1	1202.2	1194.4
175°	1203.9	1197.9	1199.6	1205.7	1197.0
177.5°	1205.7	1199.6	1200.5	1206.5	1198.7
180°	1201.3	1201.3	1201.3	1201.3	1201.3

(END OF REPORT)