

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: P1008671

Luminaire Tested: S122DIP-B1005D530UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008671
REPORT IS A COMBINATION OF REPORTS P983693 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D530UB50-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

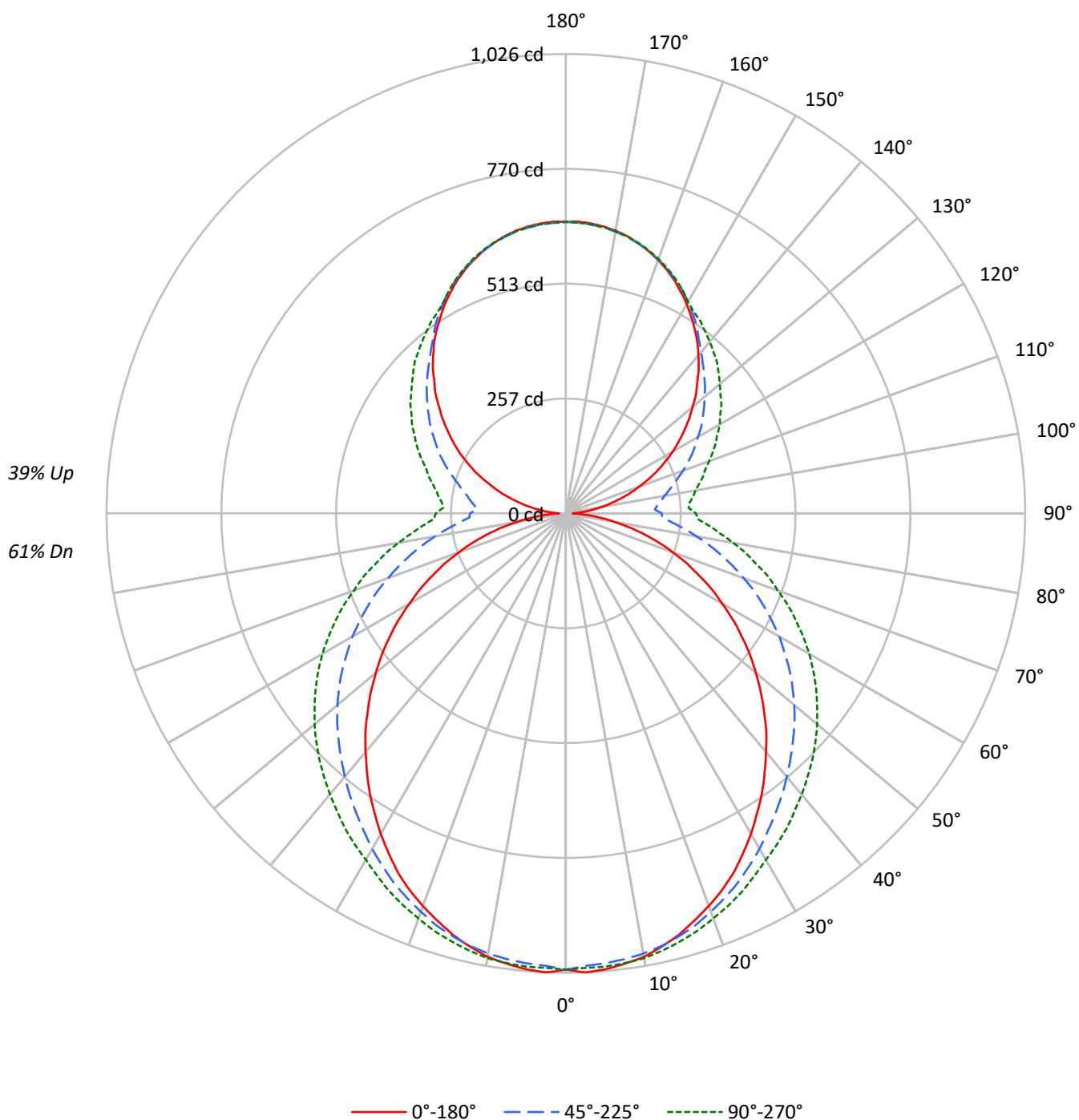
Lumens per Lamp: N/A
Luminaire Lumens: 5710.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66
1	98	93	88	84	92	87	83	79	76	72	70	65	63	61	55	54	52
2	89	80	73	67	82	75	69	64	65	60	56	56	52	49	48	45	42
3	81	70	62	55	75	65	58	52	57	51	46	49	45	41	42	38	35
4	73	62	53	46	68	58	50	44	50	44	39	43	38	34	37	33	30
5	67	55	46	39	62	51	43	37	45	38	33	39	34	30	33	29	26
6	62	49	40	34	57	46	38	32	40	34	29	35	30	26	30	26	22
7	57	44	36	30	53	41	34	28	36	30	25	32	26	23	27	23	20
8	53	40	32	26	49	38	30	25	33	27	22	29	24	20	25	21	18
9	49	37	29	23	46	34	27	22	30	24	20	27	22	18	23	19	16
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	21	17	14

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	1.7
10°-20°	277.0	4.9
20°-30°	419.8	7.4
30°-40°	511.2	9.0
40°-50°	550.0	9.6
50°-60°	534.1	9.4
60°-70°	466.4	8.2
70°-80°	359.0	6.3
80°-90°	242.3	4.2
90°-100°	206.1	3.6
100°-110°	249.2	4.4
110°-120°	299.1	5.2
120°-130°	332.7	5.8
130°-140°	342.1	6.0
140°-150°	320.3	5.6
150°-160°	266.0	4.7
160°-170°	176.4	3.1
170°-180°	61.7	1.1
0°-30°	793.4	13.9
0°-40°	1304.6	22.8
0°-60°	2388.7	41.8
0°-90°	3456.4	60.5
90°-120°	754.4	13.2
90°-150°	1749.5	30.6
90°-180°	2254.0	39.5
0°-180°	5710.0	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°	15	108	214	272	290	12
95°	40	115	205	261	278	41
105°	126	170	248	301	317	133
115°	226	245	311	354	369	223
125°	323	328	373	412	424	289
135°	415	421	437	468	478	321
145°	502	506	509	519	524	314
155°	574	576	577	580	578	264
165°	625	624	624	628	625	176
175°	650	648	647	651	648	62
180°	651	651	651	651	651	

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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°	15.3	107.5	214.1	272.1	290.4
92.5°	25.4	108.1	198.6	256.8	274.6
95°	40.4	115.3	205.0	261.1	277.8
97.5°	58.1	126.5	214.4	269.0	286.8
100°	80.1	139.2	223.5	278.1	293.9
102.5°	101.7	153.7	235.6	289.4	305.0
105°	125.5	170.0	247.9	300.7	316.9
107.5°	150.8	188.4	262.3	313.0	326.5
110°	173.5	206.3	278.7	326.0	340.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	199.8	226.7	294.2	339.7	354.9
115°	225.7	245.3	310.6	354.3	369.0
117.5°	250.0	266.2	325.5	368.2	381.2
120°	275.8	286.1	340.8	382.2	396.8
122.5°	299.4	306.4	358.3	396.5	408.7
125°	322.7	327.7	373.2	411.5	424.2
127.5°	346.9	351.5	389.1	423.9	435.5
130°	369.4	375.1	405.0	439.3	448.9
132.5°	394.7	398.7	421.4	452.6	462.8
135°	415.2	421.2	437.0	467.6	477.7
137.5°	439.4	444.3	452.8	480.3	488.5
140°	460.8	464.2	470.0	493.6	500.2
142.5°	482.8	486.2	487.9	506.1	511.3
145°	502.1	506.0	509.3	518.7	523.8
147.5°	520.8	525.8	528.0	530.6	532.8
150°	540.1	543.3	545.5	547.2	545.5
152.5°	557.1	560.4	563.1	565.3	563.1
155°	574.1	575.8	577.4	580.2	578.5
157.5°	588.9	590.0	591.1	595.0	592.2
160°	602.1	603.2	603.8	607.1	604.9
162.5°	614.2	614.2	614.8	618.6	615.9
165°	624.7	624.1	624.1	628.0	625.2
167.5°	634.0	632.3	632.3	636.2	633.4
170°	641.1	639.5	638.9	642.8	639.5
172.5°	646.1	644.4	643.9	647.7	644.4
175°	649.9	648.3	647.2	651.0	647.7
177.5°	652.1	650.5	649.4	652.7	649.4
180°	651.0	651.0	651.0	651.0	651.0

(END OF REPORT)