

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: P1007961

Luminaire Tested: S122DIP-B1005D530UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007961
REPORT IS A COMBINATION OF REPORTS P983659 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D530UB2750-4F0-XX-W2A-F_3500K
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

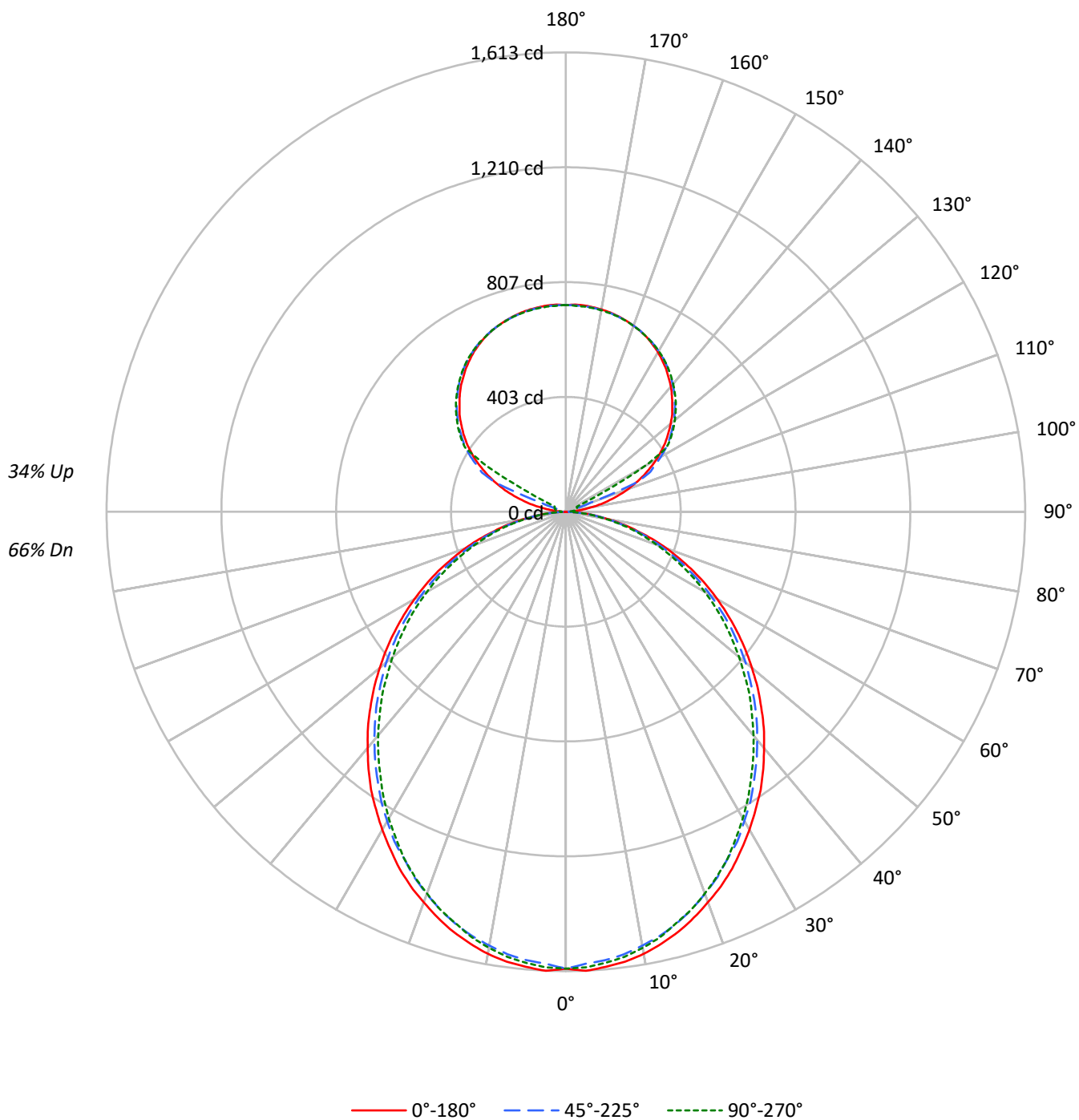
Lumens per Lamp: N/A
Luminaire Lumens: 6210.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	111	111	111	111		104	104	104	104		92	92	92		81	81	81		71	71	71
1	101	97	93	89		95	91	88	85		81	78	76		71	69	67		62	61	60
2	92	85	78	73		87	80	74	70		71	67	63		63	59	56		55	52	50
3	84	74	67	61		79	70	64	58		63	57	53		55	51	48		49	46	43
4	77	66	58	52		72	62	55	49		56	50	45		49	45	41		44	40	37
5	71	59	51	44		66	56	48	43		50	44	39		44	39	36		39	35	32
6	65	53	45	39		61	50	43	37		45	39	34		40	35	31		36	32	28
7	61	48	40	34		57	45	38	33		41	35	30		37	32	28		33	28	25
8	56	44	36	30		53	41	34	29		37	31	27		34	28	25		30	26	23
9	52	40	32	27		49	38	31	26		34	28	24		31	26	22		28	24	21
10	49	37	29	24		46	35	28	24		32	26	22		29	24	20		26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25392	25392	25392
5°	25433	24202	24031
10°	25225	23099	22641
15°	24856	21987	21179
20°	24357	20779	19795
25°	23859	19517	18413
30°	23232	18330	16963
35°	22644	17079	15537
40°	21913	15843	14190
45°	21189	14619	12870
50°	20396	13372	11499
55°	19564	12039	10202
60°	18629	10597	8852
65°	17601	9129	7433
70°	16296	7525	6002
75°	14494	5800	4636
80°	12311	3942	2983
85°	8927	1836	1270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	2.4
10°-20°	424.8	6.8
20°-30°	624.2	10.1
30°-40°	725.0	11.7
40°-50°	724.1	11.7
50°-60°	631.4	10.2
60°-70°	466.7	7.5
70°-80°	264.1	4.3
80°-90°	71.0	1.1
90°-100°	23.9	0.4
100°-110°	89.2	1.4
110°-120°	236.6	3.8
120°-130°	392.4	6.3
130°-140°	416.9	6.7
140°-150°	387.4	6.2
150°-160°	311.5	5.0
160°-170°	200.7	3.2
170°-180°	69.1	1.1
0°-30°	1200.0	19.3
0°-40°	1925.0	31.0
0°-60°	3280.5	52.8
0°-90°	4082.3	65.7
90°-120°	349.8	5.6
90°-150°	1546.5	24.9
90°-180°	2128.0	34.3
0°-180°	6210.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1598	1581	1593	1590	152
15°	1527	1518	1498	1504	1496	430
25°	1382	1370	1343	1346	1343	636
35°	1192	1177	1152	1143	1135	745
45°	970	959	936	919	913	749
55°	734	725	706	688	680	656
65°	495	486	470	456	449	490
75°	259	256	248	239	242	277
85°	63	62	60	56	54	70
90°	0	6	10	13	14	6
95°	34	17	20	23	23	40
105°	160	175	32	38	40	171
115°	302	311	324	81	43	297
125°	427	434	444	447	449	381
135°	528	537	541	547	546	408
145°	613	612	621	625	622	383
155°	675	670	676	680	675	311
165°	711	708	710	713	710	201
175°	727	724	725	728	723	69
180°	726	726	726	726	726	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1613.3	1605.6	1588.6	1604.1	1601.0
5°	1604.1	1597.9	1580.9	1593.3	1590.2
7.5°	1593.3	1584.0	1567.0	1579.4	1576.3
10°	1576.3	1565.5	1547.0	1559.3	1554.7
12.5°	1553.2	1543.9	1525.4	1533.1	1530.0
15°	1526.9	1517.7	1497.6	1503.8	1496.1
17.5°	1494.6	1485.3	1465.3	1473.0	1465.3
20°	1459.1	1449.8	1428.2	1432.9	1426.7
22.5°	1423.6	1409.7	1389.7	1389.7	1386.6
25°	1382.0	1369.6	1343.4	1346.5	1343.4
27.5°	1335.7	1324.9	1304.8	1300.2	1292.5
30°	1289.4	1277.1	1253.9	1249.3	1243.2
32.5°	1240.1	1230.8	1206.1	1196.9	1190.7
35°	1192.3	1176.8	1152.2	1142.9	1135.2
37.5°	1138.3	1124.4	1099.7	1088.9	1081.2
40°	1082.7	1070.4	1045.7	1031.8	1025.7
42.5°	1028.8	1016.4	991.7	976.3	967.1
45°	970.2	959.4	936.2	919.3	913.1
47.5°	913.1	902.3	877.6	860.6	851.4
50°	852.9	845.2	823.6	802.0	794.3
52.5°	794.3	783.5	763.5	746.5	735.7
55°	734.2	724.9	706.4	687.9	680.2
57.5°	674.0	666.3	646.3	627.7	621.6
60°	613.9	607.7	586.1	569.1	564.5
62.5°	555.3	544.5	529.0	513.6	507.4
65°	495.1	485.8	470.4	456.5	448.8
67.5°	433.4	425.7	411.8	401.0	394.8
70°	376.3	370.2	356.3	345.5	339.3
72.5°	317.7	311.6	303.8	293.1	288.4
75°	259.1	256.0	248.3	239.1	242.2
77.5°	206.7	200.5	197.4	192.8	188.2
80°	154.2	152.7	149.6	145.0	141.9
82.5°	104.9	104.9	103.3	97.2	97.2
85°	63.2	61.7	60.2	55.5	54.0
87.5°	27.8	24.7	21.6	17.0	15.4
90°	0.5	6.3	10.5	13.1	14.2
92.5°	13.1	11.0	12.6	13.7	14.2
95°	34.1	16.8	20.5	23.1	22.6
97.5°	61.4	18.4	26.8	28.4	28.9
100°	93.0	21.0	29.9	34.1	35.2
102.5°	127.6	126.6	31.0	36.8	38.3
105°	159.6	175.4	32.0	37.8	39.9
107.5°	196.9	210.1	33.1	38.9	41.0
110°	232.6	243.7	91.9	39.4	41.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266.3	275.7	266.8	40.4	42.0
115°	302.0	310.9	324.0	80.9	43.1
117.5°	333.0	343.5	352.4	277.3	139.7
120°	367.6	375.5	384.9	391.2	320.4
122.5°	397.0	405.4	415.9	419.1	419.6
125°	427.0	433.8	443.8	447.4	449.0
127.5°	454.3	461.6	469.5	474.7	475.3
130°	480.0	488.4	494.2	500.0	499.4
132.5°	506.3	513.1	518.9	523.6	523.1
135°	528.3	536.7	541.4	546.7	545.6
137.5°	551.4	557.7	563.0	568.2	566.7
140°	574.0	578.2	584.0	588.7	586.1
142.5°	592.9	596.6	603.4	607.6	605.0
145°	612.9	612.3	621.3	624.9	622.3
147.5°	630.2	628.6	637.5	640.2	638.1
150°	647.0	643.3	651.7	654.9	652.3
152.5°	661.2	657.0	664.9	668.0	664.3
155°	674.8	670.1	676.4	679.6	675.4
157.5°	685.9	681.7	686.4	690.1	685.9
160°	695.3	692.2	695.3	698.5	694.8
162.5°	703.7	700.6	703.2	706.9	702.1
165°	711.1	707.9	709.5	713.2	709.5
167.5°	716.8	713.7	715.3	718.9	714.2
170°	721.6	718.4	719.5	723.2	718.4
172.5°	724.7	721.6	722.6	726.3	721.6
175°	727.4	723.7	724.7	728.4	723.2
177.5°	728.4	724.7	725.3	728.9	724.2
180°	725.8	725.8	725.8	725.8	725.8

(END OF REPORT)