

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P997922

Luminaire Tested: SA2XXDIP-B1005D530UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P997922
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: SA2XXDIP-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

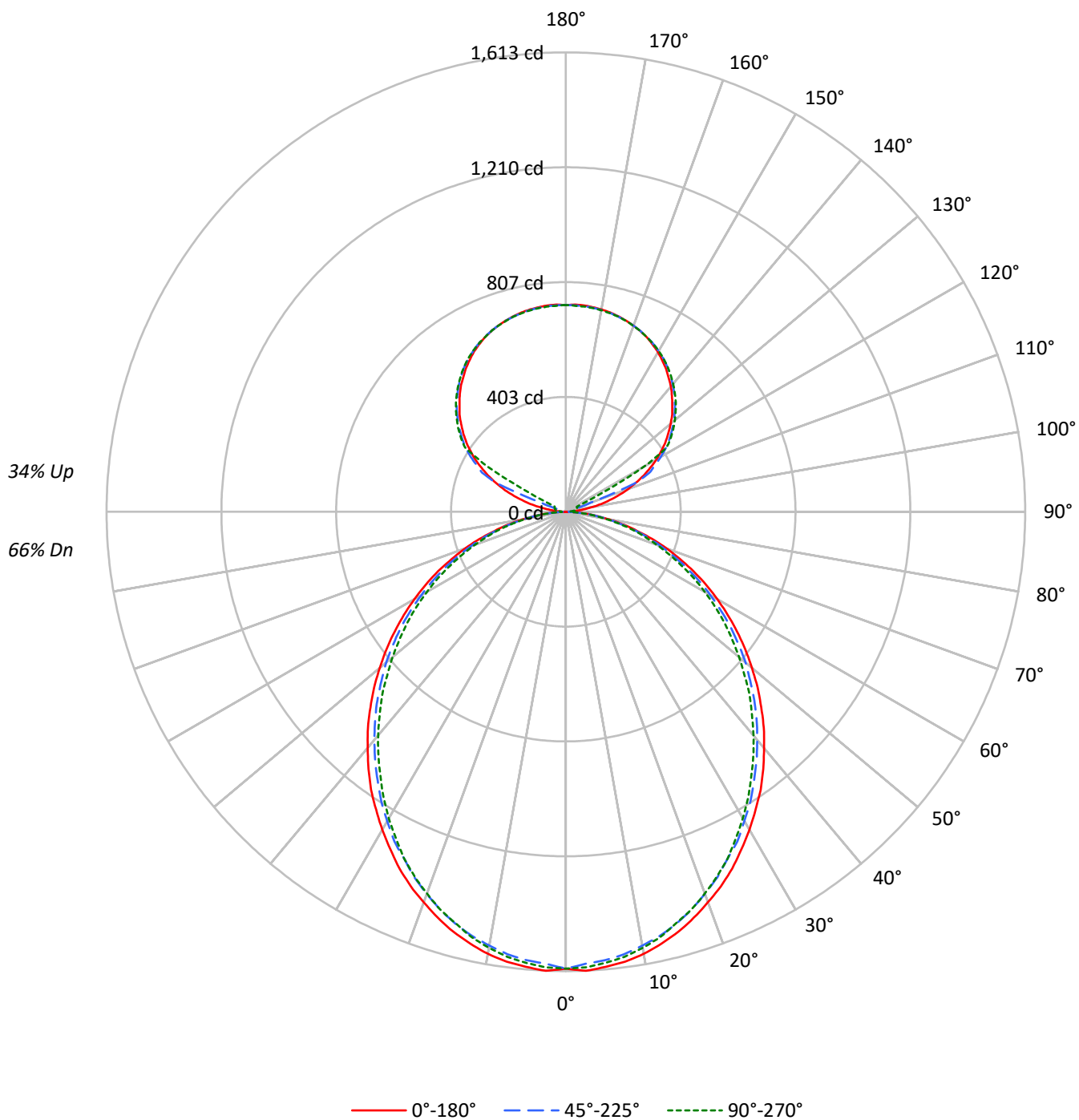
Lumens per Lamp: N/A
Luminaire Lumens: 6210.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.81	18.83	18.62	19.67	20.69	18.59	19.62	19.40	20.45	21.48
	3H	19.16	20.08	19.98	20.92	21.98	20.23	21.15	21.05	21.99	23.05
	4H	19.57	20.44	20.41	21.29	22.36	20.83	21.70	21.67	22.55	23.61
	6H	19.80	20.60	20.65	21.46	22.54	21.24	22.04	22.09	22.90	23.98
	8H	19.84	20.60	20.70	21.47	22.55	21.36	22.12	22.22	22.99	24.07
	12H	19.83	20.56	20.70	21.43	22.53	21.41	22.13	22.27	23.00	24.11
4H	2H	18.30	19.17	19.14	20.02	21.08	18.94	19.81	19.79	20.66	21.73
	3H	19.83	20.56	20.69	21.44	22.52	20.74	21.46	21.59	22.34	23.43
	4H	20.34	21.00	21.21	21.88	22.99	21.43	22.09	22.29	22.97	24.07
	6H	20.66	21.23	21.54	22.13	23.24	21.93	22.50	22.81	23.41	24.52
	8H	20.72	21.25	21.60	22.15	23.27	22.08	22.61	22.96	23.51	24.63
	12H	20.72	21.21	21.63	22.12	23.25	22.15	22.63	23.05	23.55	24.68
8H	4H	20.53	21.07	21.42	21.96	23.09	21.52	22.06	22.41	22.96	24.08
	6H	20.92	21.37	21.84	22.30	23.43	22.10	22.54	23.01	23.48	24.61
	8H	21.03	21.42	21.95	22.35	23.49	22.29	22.68	23.21	23.61	24.76
	12H	21.07	21.41	21.99	22.34	23.53	22.40	22.74	23.32	23.67	24.86
12H	4H	20.52	21.00	21.43	21.92	23.05	21.50	21.98	22.40	22.89	24.02
	6H	20.94	21.33	21.87	22.27	23.41	22.09	22.49	23.02	23.42	24.56
	8H	21.06	21.41	21.99	22.33	23.53	22.30	22.64	23.22	23.57	24.76

END OF REPORT