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: P1001184

Luminaire Tested: SA4XXDIP-B350D1205UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1001184
	REPORT IS A COMBINATION OF REPORTS P995800 AND P1007351
Test Lab:	INNOVATION CENTER
Issue Date:	5/7/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	SA4XXDIP-B350D1205UB2750-4F0-XX-W2A-F_3500K
Description:	Define 4 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:	6310.0 lumens
Efficiency:	N/A
Efficacy:	131.5 lumens/watt
Spacing Criteria (0/90/45):	1.2 / 1.17 / 1.29
Luminous Opening:	Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type:	Semi-Indirect

Input Watts (W):	48
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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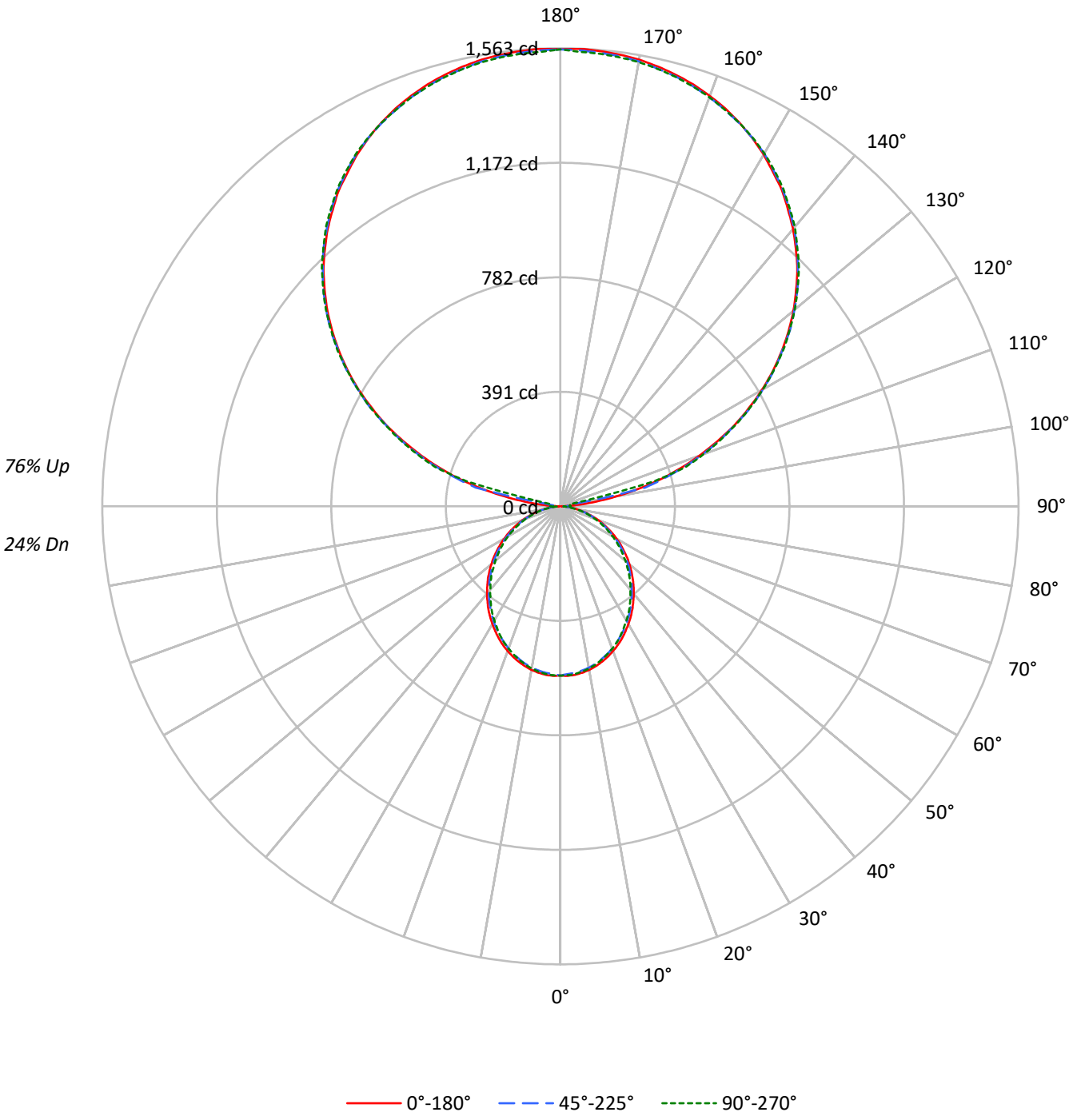
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	24
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	76	71	66	74	68	63	59	52	49	46	38	36	34	25	24	22	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	36	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	35	37	32	28	27	24	21	18	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	13	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	13	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	7
10	43	32	25	20	38	29	22	18	22	18	15	17	14	11	11	9	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4708	4708	4708
5°	4712	4573	4579
10°	4673	4446	4415
15°	4606	4295	4230
20°	4520	4132	4039
25°	4424	3959	3834
30°	4307	3772	3608
35°	4187	3581	3389
40°	4062	3376	3157
45°	3930	3171	2940
50°	3784	2971	2699
55°	3627	2737	2461
60°	3464	2482	2212
65°	3278	2218	1932
70°	3065	1900	1631
75°	2746	1532	1307
80°	2340	1107	919
85°	1819	618	495

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3930 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.4	0.9
10°-20°	153.3	2.4
20°-30°	225.7	3.6
30°-40°	262.3	4.2
40°-50°	262.3	4.2
50°-60°	229.4	3.6
60°-70°	170.3	2.7
70°-80°	96.6	1.5
80°-90°	30.9	0.5
90°-100°	51.8	0.8
100°-110°	340.8	5.4
110°-120°	650.9	10.3
120°-130°	826.3	13.1
130°-140°	883.9	14.0
140°-150°	826.5	13.1
150°-160°	666.5	10.6
160°-170°	429.9	6.8
170°-180°	148.2	2.3
0°-30°	433.4	6.9
0°-40°	695.7	11.0
0°-60°	1187.4	18.8
0°-90°	1485.2	23.5
90°-120°	1043.5	16.5
90°-150°	3580.2	56.7
90°-180°	4825.0	76.5
0°-180°	6310.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	577	577	577	577	577	
5°	577	575	570	575	574	55
15°	549	547	540	543	542	155
25°	497	494	488	488	486	229
35°	428	425	418	415	413	268
45°	349	346	339	334	332	269
55°	264	263	256	251	248	237
65°	179	177	172	168	165	177
75°	95	93	91	89	88	101
85°	25	25	24	24	24	27
90°	4	16	26	33	35	5
95°	64	24	26	33	34	79
105°	351	358	364	374	332	367
115°	655	659	658	660	660	645
125°	921	926	924	927	928	823
135°	1143	1142	1146	1149	1151	881
145°	1318	1321	1321	1322	1325	823
155°	1445	1446	1443	1447	1444	666
165°	1524	1518	1518	1528	1517	431
175°	1559	1552	1553	1564	1550	148
180°	1559	1559	1559	1559	1559	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	577.4	577.4	577.4	*577.4*	577.4
2.5°	579.2	577.9	572.8	*577.4*	576.9
5°	576.9	575.1	570.0	*575.1*	574.2
7.5°	572.8	570.9	565.4	*569.5*	569.1
10°	566.8	564.9	558.9	*562.6*	561.7
12.5°	558.9	557.0	550.6	*554.7*	553.3
15°	549.2	547.3	540.4	*543.2*	541.8
17.5°	538.1	535.8	529.3	*531.1*	530.2
20°	525.6	523.3	516.3	*517.7*	516.8
22.5°	512.2	508.9	502.0	*504.8*	502.9
25°	497.4	494.1	487.6	*488.1*	486.3
27.5°	480.7	477.5	471.4	*470.5*	468.2
30°	464.0	460.3	454.3	*452.5*	450.2
32.5°	446.5	443.2	436.7	*434.4*	432.1
35°	428.0	424.7	418.2	*415.0*	412.7
37.5°	408.5	405.8	398.8	*395.6*	392.3
40°	389.6	385.9	378.9	*374.3*	372.0
42.5°	369.2	367.3	359.5	*353.9*	352.5
45°	349.3	346.1	338.7	*333.6*	332.2
47.5°	328.5	326.2	319.2	*313.7*	310.0
50°	307.2	305.4	298.9	*292.4*	289.6
52.5°	286.4	284.1	277.1	*271.6*	267.9
55°	264.2	262.8	256.3	*250.8*	248.0
57.5°	243.4	242.0	235.5	*229.9*	227.2
60°	221.6	219.3	213.3	*209.1*	206.8
62.5°	200.3	198.5	192.0	*188.3*	186.0
65°	179.0	176.7	172.1	*167.5*	165.2
67.5°	157.3	155.5	150.8	*146.2*	145.7
70°	137.4	134.2	130.5	*126.8*	125.4
72.5°	116.1	112.9	110.1	*107.3*	105.9
75°	95.3	93.0	90.7	*88.8*	88.4
77.5°	75.0	74.0	71.7	*71.2*	69.9
80°	56.9	55.5	54.6	*53.7*	53.2
82.5°	39.3	38.9	38.9	*38.4*	37.9
85°	25.0	25.0	24.1	*24.1*	23.6
87.5°	12.0	11.6	11.1	*11.1*	11.1
90°	3.5	16.3	25.7	*32.7*	35.0
92.5°	17.5	15.2	24.5	*31.5*	31.5
95°	64.1	24.5	25.7	*32.7*	33.8
97.5°	122.5	148.1	25.7	*31.5*	32.7
100°	191.3	212.2	51.3	*31.5*	32.7
102.5°	268.2	282.2	296.2	*33.8*	33.8
105°	351.0	358.0	363.9	*374.4*	332.4
107.5°	426.8	430.3	438.5	*444.3*	449.0
110°	503.8	507.3	514.3	*516.6*	520.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	578.4	585.4	587.8	*586.6*	591.3
115°	655.4	658.9	657.7	*660.1*	660.1
117.5°	724.2	728.9	732.4	*731.2*	731.2
120°	794.2	798.9	797.7	*800.0*	797.7
122.5°	859.5	861.8	864.2	*865.3*	863.0
125°	921.3	926.0	923.6	*927.1*	928.3
127.5°	980.8	981.9	987.8	*986.6*	985.4
130°	1037.9	1039.1	1042.6	*1043.8*	1043.8
132.5°	1090.4	1092.7	1097.4	*1098.6*	1097.4
135°	1142.9	1141.7	1146.4	*1148.7*	1151.0
137.5°	1189.5	1189.5	1195.4	*1197.7*	1196.5
140°	1235.0	1237.3	1239.7	*1243.2*	1244.3
142.5°	1275.8	1280.5	1281.7	*1284.0*	1284.0
145°	1317.8	1321.3	1321.3	*1322.5*	1324.8
147.5°	1350.5	1357.5	1356.3	*1357.5*	1358.6
150°	1386.6	1391.3	1390.1	*1390.1*	1391.3
152.5°	1416.9	1420.4	1418.1	*1420.4*	1419.3
155°	1444.9	1446.1	1442.6	*1447.3*	1443.8
157.5°	1469.4	1469.4	1464.8	*1470.6*	1464.8
160°	1490.4	1486.9	1485.7	*1492.7*	1485.7
162.5°	1509.1	1504.4	1503.2	*1510.2*	1502.1
165°	1524.2	1518.4	1518.4	*1527.7*	1517.2
167.5°	1537.1	1531.2	1530.1	*1540.6*	1528.9
170°	1547.6	1540.6	1541.7	*1551.1*	1539.4
172.5°	1554.6	1547.6	1548.7	*1558.1*	1545.2
175°	1559.2	1552.2	1553.4	*1563.9*	1549.9
177.5°	*1562.7*	*1554.6*	*1556.9*	*1566.2*	*1552.2*
180°	1559.2	1559.2	1559.2	*1559.2*	1559.2

(END OF REPORT)