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: P1001142

Luminaire Tested: SA4XXDIP-B350D1035UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1001142
	REPORT IS A COMBINATION OF REPORTS P995758 AND P1007351
Test Lab:	INNOVATION CENTER
Issue Date:	5/7/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	SA4XXDIP-B350D1035UB35-4F0-XX-W2A-F
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:	5591.0 lumens
Efficiency:	N/A
Efficacy:	134.7 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):	41.5
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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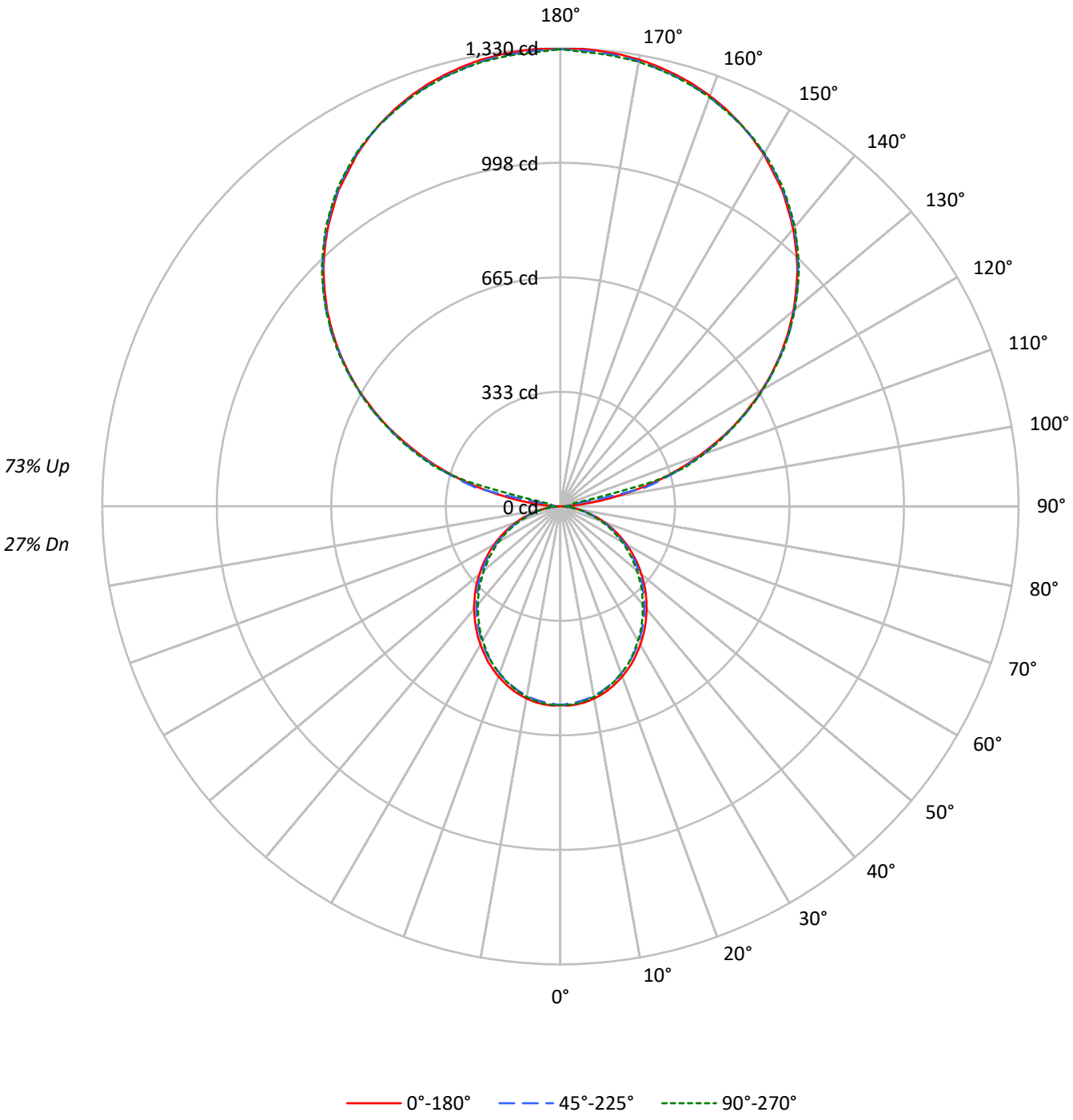
Luminous Intensity Polar Plot



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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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	93	88	85	81	82	79	76	73	61	59	57	45	44	43	30	30	29	22
2	84	77	71	66	75	69	64	60	54	50	47	40	38	36	27	26	24	19
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	24	22	21	16
4	70	60	52	46	62	54	47	42	42	37	34	31	28	26	21	19	18	14
5	64	53	45	40	57	48	41	36	37	33	29	28	25	22	19	17	16	12
6	59	47	40	34	52	43	36	31	34	29	25	25	22	19	17	15	14	10
7	54	43	35	30	48	38	32	27	30	26	22	23	20	17	16	14	12	9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	14	12	11	8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	13	13	11	10	7
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9	7

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	1.0
10°-20°	153.3	2.7
20°-30°	225.7	4.0
30°-40°	262.3	4.7
40°-50°	262.3	4.7
50°-60°	229.4	4.1
60°-70°	170.3	3.0
70°-80°	96.6	1.7
80°-90°	30.4	0.5
90°-100°	44.0	0.8
100°-110°	290.1	5.2
110°-120°	553.9	9.9
120°-130°	703.2	12.6
130°-140°	752.3	13.5
140°-150°	703.4	12.6
150°-160°	567.3	10.1
160°-170°	365.8	6.5
170°-180°	126.1	2.3
0°-30°	433.4	7.8
0°-40°	695.7	12.4
0°-60°	1187.4	21.2
0°-90°	1484.8	26.6
90°-120°	888.1	15.9
90°-150°	3047.1	54.5
90°-180°	4106.0	73.4
0°-180°	5591.0	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°	3	14	22	28	30	5
95°	55	21	22	28	29	67
105°	299	305	310	319	283	313
115°	558	561	560	562	562	549
125°	784	788	786	789	790	700
135°	973	972	976	978	980	750
145°	1122	1124	1124	1126	1128	701
155°	1230	1231	1228	1232	1229	567
165°	1297	1292	1292	1300	1291	367
175°	1327	1321	1322	1331	1319	126
180°	1327	1327	1327	1327	1327	

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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°	3.0	13.9	21.8	*27.8*	29.8
92.5°	14.9	12.9	20.8	*26.8*	26.8
95°	54.6	20.8	21.8	*27.8*	28.8
97.5°	104.2	126.1	21.8	*26.8*	27.8
100°	162.8	180.6	43.7	*26.8*	27.8
102.5°	228.3	240.2	252.1	*28.8*	28.8
105°	298.8	304.7	309.7	*318.6*	282.9
107.5°	363.3	366.2	373.2	*378.2*	382.1
110°	428.8	431.8	437.7	*439.7*	442.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	492.3	498.3	500.2	*499.2*	503.2
115°	557.8	560.8	559.8	*561.8*	561.8
117.5°	616.4	620.3	623.3	*622.3*	622.3
120°	675.9	679.9	678.9	*680.9*	678.9
122.5°	731.5	733.5	735.5	*736.5*	734.5
125°	784.1	788.1	786.1	*789.1*	790.1
127.5°	834.7	835.7	840.7	*839.7*	838.7
130°	883.4	884.3	887.3	*888.3*	888.3
132.5°	928.0	930.0	934.0	*935.0*	934.0
135°	972.7	971.7	975.7	*977.6*	979.6
137.5°	1012.4	1012.4	1017.3	*1019.3*	1018.3
140°	1051.1	1053.1	1055.1	*1058.0*	1059.0
142.5°	1085.8	1089.8	1090.8	*1092.8*	1092.8
145°	1121.6	1124.5	1124.5	*1125.5*	1127.5
147.5°	1149.4	1155.3	1154.3	*1155.3*	1156.3
150°	1180.1	1184.1	1183.1	*1183.1*	1184.1
152.5°	1205.9	1208.9	1206.9	*1208.9*	1207.9
155°	1229.7	1230.7	1227.8	*1231.7*	1228.8
157.5°	1250.6	1250.6	1246.6	*1251.6*	1246.6
160°	1268.5	1265.5	1264.5	*1270.4*	1264.5
162.5°	1284.3	1280.4	1279.4	*1285.3*	1278.4
165°	1297.2	1292.3	1292.3	*1300.2*	1291.3
167.5°	1308.2	1303.2	1302.2	*1311.1*	1301.2
170°	1317.1	1311.1	1312.1	*1320.1*	1310.1
172.5°	1323.0	1317.1	1318.1	*1326.0*	1315.1
175°	1327.0	1321.1	1322.1	*1331.0*	1319.1
177.5°	*1330.0*	*1323.0*	*1325.0*	*1333.0*	*1321.1*
180°	1327.0	1327.0	1327.0	*1327.0*	1327.0

(END OF REPORT)