

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: P1001218

Luminaire Tested: SA4XXDIP-B350D1205UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001218
REPORT IS A COMBINATION OF REPORTS P995834 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D1205UB50-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

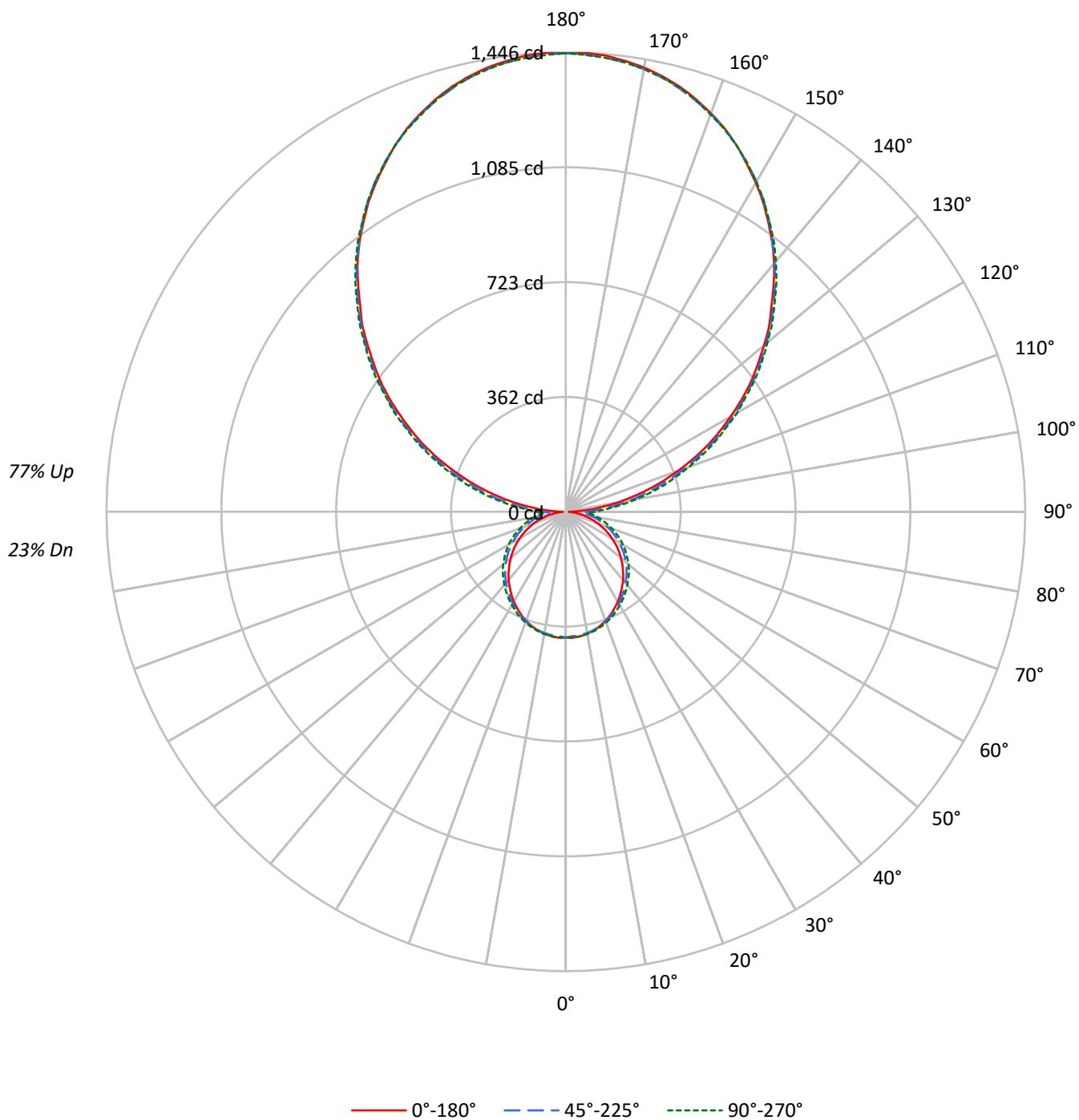
Lumens per Lamp: N/A
Luminaire Lumens: 5357.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32
1	91	87	83	80	81	77	74	71	59	57	55	42	41	40	27	26	26
2	83	76	70	64	73	67	62	58	51	48	45	37	35	33	24	22	21
3	75	66	59	53	67	59	53	48	45	41	38	32	30	28	21	19	18
4	69	58	51	45	61	52	45	40	40	35	32	29	26	23	18	17	15
5	63	52	44	38	56	46	39	34	36	31	27	26	22	20	16	15	13
6	58	46	38	33	51	41	34	30	32	27	23	23	20	17	15	13	11
7	53	41	34	28	47	37	30	26	29	24	20	21	18	15	14	12	10
8	49	37	30	25	44	33	27	22	26	21	18	19	16	13	12	10	9
9	46	34	27	22	41	30	24	20	24	19	16	17	14	12	11	9	8
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3227	3227	3227
5°	3235	3143	3148
10°	3214	3081	3072
15°	3184	3011	2986
20°	3140	2936	2902
25°	3090	2853	2812
30°	3035	2770	2720
35°	2974	2686	2638
40°	2925	2605	2554
45°	2851	2530	2478
50°	2789	2444	2399
55°	2725	2361	2308
60°	2625	2258	2222
65°	2516	2147	2119
70°	2383	2020	2000
75°	2196	1878	1887
80°	1987	1734	1769
85°	1710	1589	1673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 3392 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	0.7
10°-20°	107.4	2.0
20°-30°	162.4	3.0
30°-40°	196.5	3.7
40°-50°	207.7	3.9
50°-60°	195.5	3.6
60°-70°	162.2	3.0
70°-80°	113.8	2.1
80°-90°	67.3	1.3
90°-100°	132.3	2.5
100°-110°	310.1	5.8
110°-120°	497.7	9.3
120°-130°	642.1	12.0
130°-140°	713.8	13.3
140°-150°	697.9	13.0
150°-160°	586.2	10.9
160°-170°	390.0	7.3
170°-180°	136.6	2.5
0°-30°	307.3	5.7
0°-40°	503.8	9.4
0°-60°	907.0	16.9
0°-90°	1250.4	23.3
90°-120°	940.1	17.5
90°-150°	2993.8	55.9
90°-180°	4107.0	76.7
0°-180°	5357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	396	395	392	395	395	38
15°	380	380	379	383	382	107
25°	347	350	351	356	357	160
35°	304	309	314	320	321	190
45°	253	262	270	278	280	196
55°	198	208	221	230	233	177
65°	137	152	167	178	181	136
75°	76	93	111	124	128	81
85°	24	42	62	75	80	24
90°	10	40	68	88	94	10
95°	73	97	123	139	143	77
105°	264	274	295	309	316	280
115°	489	493	505	514	516	483
125°	711	710	720	726	727	634
135°	915	922	925	930	929	708
145°	1111	1115	1116	1118	1116	696
155°	1273	1273	1272	1276	1272	586
165°	1385	1382	1380	1386	1382	391
175°	1441	1436	1434	1442	1434	137
180°	1443	1443	1443	1443	1443	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	395.7	395.7	395.7	395.7	395.7
2.5°	397.4	396.1	392.6	395.7	395.2
5°	396.1	394.8	391.7	395.2	394.8
7.5°	393.5	392.6	389.9	393.9	393.5
10°	389.9	389.5	387.3	391.2	390.8
12.5°	385.0	385.0	383.7	387.3	387.3
15°	379.7	380.2	378.8	382.8	382.4
17.5°	372.6	374.0	373.5	377.5	377.1
20°	365.1	366.4	366.9	371.3	371.3
22.5°	356.7	358.5	359.3	363.8	364.7
25°	347.4	350.0	351.4	356.2	356.7
27.5°	337.2	341.2	342.9	347.4	347.8
30°	327.0	330.5	333.6	338.5	339.4
32.5°	315.9	320.3	323.9	329.7	330.5
35°	304.0	309.3	313.7	319.9	321.2
37.5°	292.0	298.2	303.5	309.7	311.0
40°	280.5	286.2	292.4	299.1	300.9
42.5°	267.2	273.8	281.4	288.9	290.2
45°	253.4	261.9	270.3	277.8	280.0
47.5°	240.6	249.0	258.8	266.3	268.9
50°	226.4	236.2	245.9	254.8	257.4
52.5°	212.2	222.0	233.5	242.4	245.0
55°	198.5	207.8	221.1	230.0	232.6
57.5°	183.0	194.5	207.4	218.0	220.2
60°	167.9	179.4	194.1	204.3	207.8
62.5°	153.3	166.2	180.8	191.0	194.5
65°	137.4	151.5	166.6	177.7	181.2
67.5°	122.3	137.4	153.3	164.4	167.9
70°	106.8	121.8	138.7	150.6	153.7
72.5°	91.7	107.2	125.4	136.9	140.5
75°	76.2	92.6	111.2	123.6	127.6
77.5°	61.6	78.9	98.4	110.8	115.2
80°	48.3	66.0	85.5	98.8	102.4
82.5°	35.0	53.6	73.1	86.8	90.8
85°	23.5	42.1	62.0	75.3	79.8
87.5°	14.6	32.8	52.3	65.1	69.1
90°	10.4	40.4	68.5	88.0	93.8
92.5°	35.6	65.7	90.3	106.1	110.8
95°	72.8	97.4	123.3	138.7	142.7
97.5°	112.5	134.3	161.3	177.4	181.3
100°	161.2	177.2	204.5	218.6	221.7
102.5°	212.5	223.4	249.2	264.0	268.6
105°	264.1	274.0	294.9	309.3	316.3
107.5°	318.8	327.4	344.0	359.6	361.6
110°	374.1	382.6	397.0	404.9	411.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	431.8	437.1	449.4	459.2	462.7
115°	489.4	493.3	505.3	514.0	516.0
117.5°	544.1	546.7	558.9	564.9	565.1
120°	598.3	604.1	613.6	617.0	622.7
122.5°	655.2	656.4	667.2	672.7	670.2
125°	710.7	710.2	720.1	726.3	726.8
127.5°	760.9	763.7	770.4	776.2	778.2
130°	814.0	816.9	824.0	829.8	827.9
132.5°	868.7	870.5	874.7	880.0	881.5
135°	915.2	921.9	925.0	929.8	929.1
137.5°	967.6	970.5	974.5	977.9	981.2
140°	1020.1	1021.8	1022.3	1026.9	1028.1
142.5°	1067.6	1069.8	1068.3	1073.2	1074.9
145°	1111.1	1115.2	1116.3	1117.9	1116.3
147.5°	1155.8	1161.0	1159.9	1159.1	1159.8
150°	1196.0	1200.0	1200.0	1200.0	1198.9
152.5°	1233.5	1235.8	1236.9	1240.2	1236.9
155°	1272.6	1272.6	1271.5	1276.0	1271.5
157.5°	1306.1	1303.9	1303.9	1307.2	1303.9
160°	1335.1	1334.0	1332.9	1336.2	1330.7
162.5°	1361.9	1358.6	1357.4	1364.1	1358.6
165°	1385.4	1382.0	1379.8	1386.5	1382.0
167.5°	1404.3	1399.9	1399.9	1406.6	1399.9
170°	1420.0	1414.4	1415.5	1422.2	1414.4
172.5°	1431.1	1426.7	1426.7	1434.5	1426.7
175°	1441.2	1435.6	1434.5	1442.3	1434.5
177.5°	1445.6	1440.1	1440.1	1447.9	1438.9
180°	1443.4	1443.4	1443.4	1443.4	1443.4

(END OF REPORT)