

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: P1001191

Luminaire Tested: SA4XXDIP-B350D1205UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001191
REPORT IS A COMBINATION OF REPORTS P995807 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D1205UB30-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

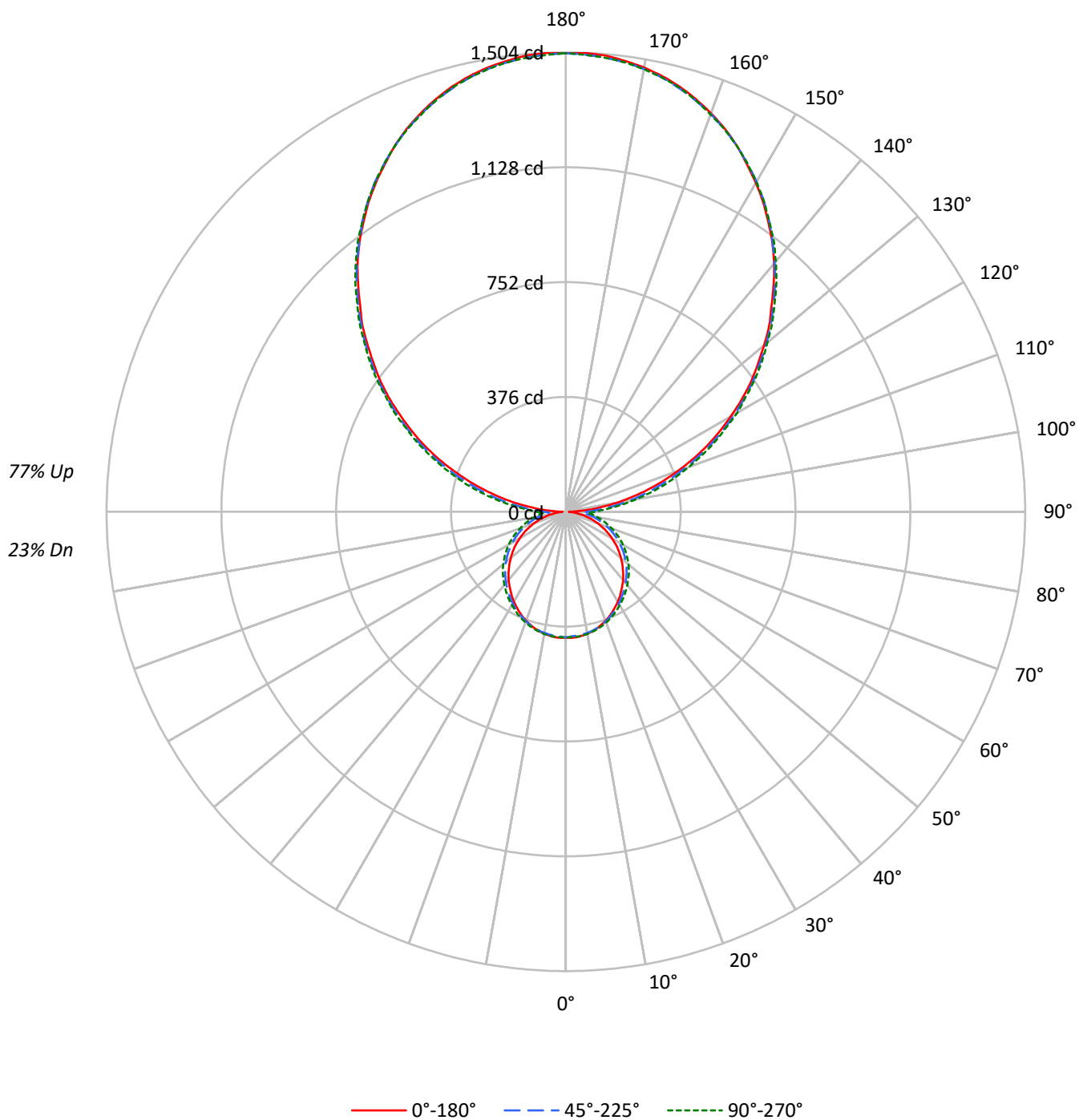
Lumens per Lamp: N/A
Luminaire Lumens: 5572.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	13	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°	3356	3356	3356
5°	3365	3268	3274
10°	3343	3204	3194
15°	3312	3132	3105
20°	3265	3054	3018
25°	3213	2967	2925
30°	3157	2881	2829
35°	3093	2794	2744
40°	3041	2710	2656
45°	2966	2631	2577
50°	2901	2542	2495
55°	2833	2455	2400
60°	2729	2348	2311
65°	2617	2233	2205
70°	2479	2100	2080
75°	2285	1954	1962
80°	2065	1803	1838
85°	1776	1653	1738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 3555 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	0.7
10°-20°	111.7	2.0
20°-30°	168.9	3.0
30°-40°	204.4	3.7
40°-50°	216.0	3.9
50°-60°	203.3	3.6
60°-70°	168.7	3.0
70°-80°	118.4	2.1
80°-90°	69.9	1.3
90°-100°	137.6	2.5
100°-110°	322.6	5.8
110°-120°	517.7	9.3
120°-130°	667.9	12.0
130°-140°	742.4	13.3
140°-150°	725.9	13.0
150°-160°	609.8	10.9
160°-170°	405.7	7.3
170°-180°	142.1	2.5
0°-30°	319.6	5.7
0°-40°	524.0	9.4
0°-60°	943.3	16.9
0°-90°	1300.4	23.3
90°-120°	977.9	17.5
90°-150°	3114.1	55.9
90°-180°	4272.0	76.7
0°-180°	5572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	412	411	407	411	411	39
15°	395	395	394	398	398	111
25°	361	364	365	370	371	166
35°	316	322	326	333	334	198
45°	264	272	281	289	291	204
55°	206	216	230	239	242	184
65°	143	158	173	185	188	142
75°	79	96	116	129	133	84
85°	24	44	64	78	83	25
90°	11	42	71	92	98	10
95°	76	101	128	144	148	80
105°	275	285	307	322	329	292
115°	509	513	526	535	537	502
125°	739	739	749	756	756	659
135°	952	959	962	967	966	737
145°	1156	1160	1161	1163	1161	724
155°	1324	1324	1323	1327	1323	609
165°	1441	1438	1435	1442	1438	406
175°	1499	1493	1492	1500	1492	142
180°	1501	1501	1501	1501	1501	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	411.5	411.5	411.5	411.5	411.5
2.5°	413.4	412.0	408.3	411.5	411.0
5°	412.0	410.6	407.4	411.0	410.6
7.5°	409.2	408.3	405.5	409.7	409.2
10°	405.5	405.1	402.8	406.9	406.4
12.5°	400.4	400.4	399.1	402.8	402.8
15°	394.9	395.4	394.0	398.1	397.7
17.5°	387.5	388.9	388.5	392.6	392.2
20°	379.7	381.1	381.6	386.2	386.2
22.5°	371.0	372.8	373.7	378.3	379.3
25°	361.3	364.0	365.4	370.5	371.0
27.5°	350.7	354.8	356.7	361.3	361.7
30°	340.1	343.8	347.0	352.1	353.0
32.5°	328.6	333.2	336.9	342.8	343.8
35°	316.1	321.6	326.3	332.7	334.1
37.5°	303.7	310.1	315.7	322.1	323.5
40°	291.7	297.7	304.1	311.1	312.9
42.5°	277.9	284.8	292.6	300.5	301.8
45°	263.6	272.3	281.1	288.9	291.2
47.5°	250.2	259.0	269.1	277.0	279.7
50°	235.5	245.6	255.8	265.0	267.7
52.5°	220.7	230.9	242.8	252.1	254.8
55°	206.4	216.1	229.9	239.2	241.9
57.5°	190.3	202.3	215.7	226.7	229.0
60°	174.6	186.6	201.8	212.4	216.1
62.5°	159.4	172.8	188.0	198.6	202.3
65°	142.9	157.6	173.3	184.8	188.5
67.5°	127.2	142.9	159.4	171.0	174.6
70°	111.1	126.7	144.2	156.7	159.9
72.5°	95.4	111.5	130.4	142.4	146.1
75°	79.3	96.3	115.7	128.6	132.7
77.5°	64.1	82.0	102.3	115.2	119.8
80°	50.2	68.7	88.9	102.8	106.4
82.5°	36.4	55.8	76.0	90.3	94.5
85°	24.4	43.8	64.5	78.3	82.9
87.5°	15.2	34.1	54.4	67.7	71.9
90°	10.9	42.1	71.1	91.5	97.5
92.5°	37.1	68.3	94.0	110.4	115.1
95°	75.7	101.3	128.3	144.2	148.4
97.5°	117.0	139.7	167.9	184.5	188.6
100°	167.7	184.3	212.7	227.5	230.7
102.5°	221.1	232.3	259.1	274.6	279.5
105°	274.7	285.1	306.8	321.7	328.9
107.5°	331.5	340.6	357.9	374.0	376.2
110°	389.2	397.9	413.0	421.2	428.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	449.1	454.7	467.6	477.7	481.4
115°	509.1	513.2	525.6	534.6	536.6
117.5°	566.0	568.7	581.4	587.5	587.7
120°	622.4	628.4	638.3	641.7	647.7
122.5°	681.6	682.7	694.0	699.8	697.2
125°	739.1	738.7	749.1	755.6	755.9
127.5°	791.4	794.5	801.4	807.3	809.4
130°	846.7	849.7	857.1	863.1	861.2
132.5°	903.6	905.4	909.9	915.4	917.0
135°	951.9	958.9	962.1	967.1	966.5
137.5°	1006.5	1009.6	1013.7	1017.1	1020.6
140°	1061.0	1063.0	1063.4	1068.2	1069.3
142.5°	1110.6	1112.9	1111.2	1116.3	1118.1
145°	1155.9	1160.0	1161.2	1162.8	1161.1
147.5°	1202.3	1207.6	1206.4	1205.8	1206.4
150°	1244.1	1248.3	1248.3	1248.3	1247.1
152.5°	1283.1	1285.4	1286.6	1290.1	1286.6
155°	1323.7	1323.7	1322.6	1327.2	1322.6
157.5°	1358.6	1356.2	1356.2	1359.7	1356.2
160°	1388.8	1387.6	1386.4	1389.9	1384.1
162.5°	1416.6	1413.1	1412.0	1418.9	1413.1
165°	1441.0	1437.5	1435.2	1442.2	1437.5
167.5°	1460.7	1456.1	1456.1	1463.1	1456.1
170°	1477.0	1471.2	1472.4	1479.3	1471.2
172.5°	1488.6	1484.0	1484.0	1492.1	1484.0
175°	1499.1	1493.3	1492.1	1500.2	1492.1
177.5°	1503.7	1497.9	1497.9	1506.0	1496.7
180°	1501.4	1501.4	1501.4	1501.4	1501.4

(END OF REPORT)