

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: P1001209

Luminaire Tested: SA4XXDIP-B350D1205UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001209
REPORT IS A COMBINATION OF REPORTS P995825 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D1205UB40-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

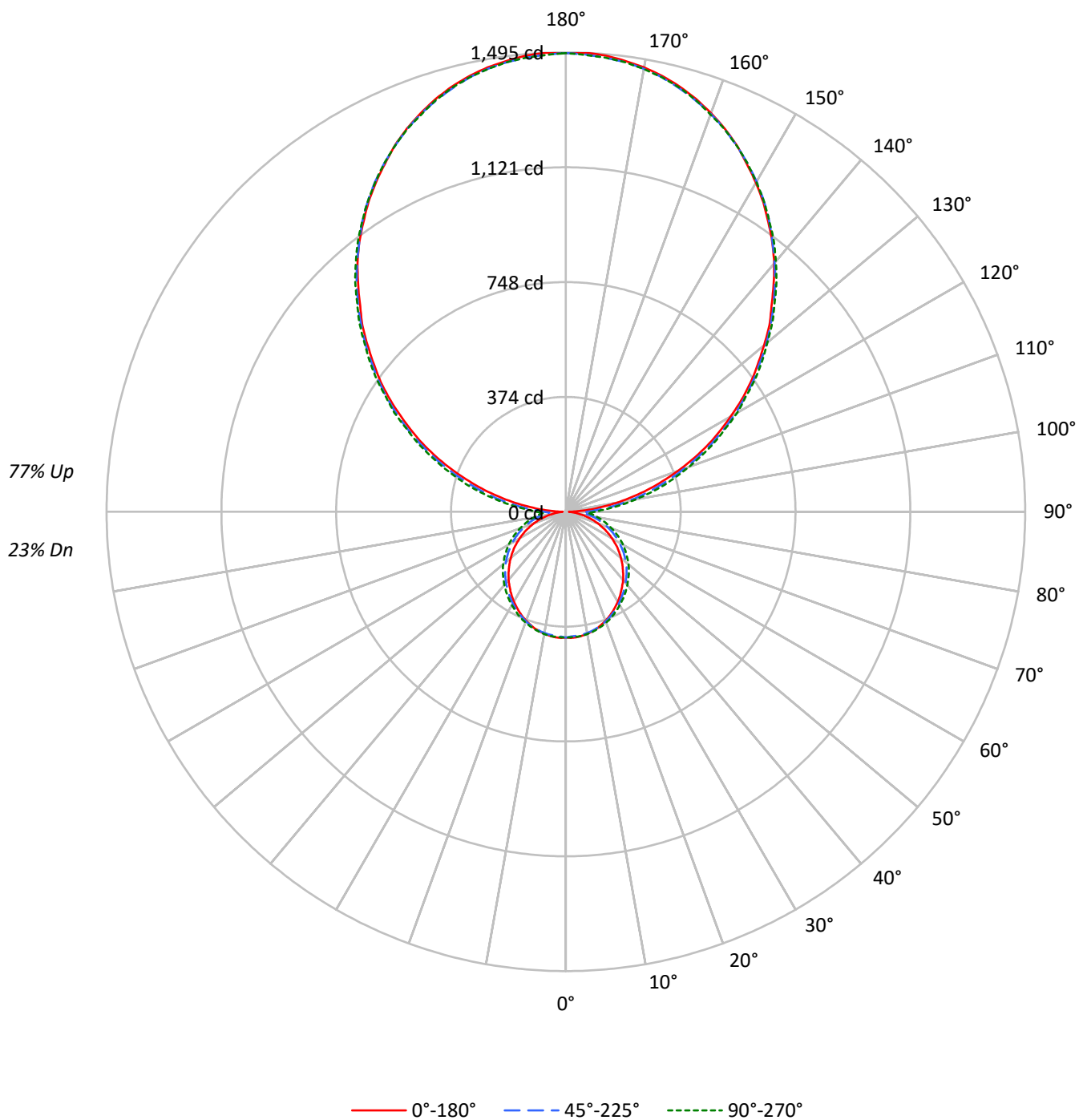
Lumens per Lamp: N/A
Luminaire Lumens: 5539.9 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	3337	3337	3337
5°	3346	3249	3255
10°	3324	3186	3176
15°	3293	3114	3087
20°	3246	3036	3001
25°	3195	2950	2907
30°	3138	2865	2813
35°	3075	2778	2728
40°	3024	2695	2640
45°	2949	2616	2563
50°	2884	2527	2481
55°	2818	2441	2386
60°	2715	2335	2298
65°	2600	2220	2192
70°	2463	2088	2069
75°	2271	1942	1952
80°	2052	1793	1828
85°	1768	1643	1729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 3523 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.8	0.7
10°-20°	111.1	2.0
20°-30°	168.0	3.0
30°-40°	203.2	3.7
40°-50°	214.8	3.9
50°-60°	202.2	3.6
60°-70°	167.7	3.0
70°-80°	117.7	2.1
80°-90°	69.6	1.3
90°-100°	136.8	2.5
100°-110°	320.7	5.8
110°-120°	514.7	9.3
120°-130°	664.0	12.0
130°-140°	738.1	13.3
140°-150°	721.7	13.0
150°-160°	606.2	10.9
160°-170°	403.4	7.3
170°-180°	141.2	2.5
0°-30°	317.8	5.7
0°-40°	521.0	9.4
0°-60°	938.0	16.9
0°-90°	1293.0	23.3
90°-120°	972.2	17.5
90°-150°	3096.1	55.9
90°-180°	4247.0	76.7
0°-180°	5539.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	409	409	409	409	409	
5°	410	408	405	409	408	39
15°	393	393	392	396	395	111
25°	359	362	363	368	369	165
35°	314	320	324	331	332	197
45°	262	271	280	287	290	203
55°	205	215	229	238	240	183
65°	142	157	172	184	187	141
75°	79	96	115	128	132	84
85°	24	44	64	78	82	25
90°	11	42	71	91	97	10
95°	75	101	128	143	148	80
105°	273	283	305	320	327	290
115°	506	510	522	532	534	499
125°	735	734	745	751	752	655
135°	946	953	956	962	961	732
145°	1149	1153	1154	1156	1154	719
155°	1316	1316	1315	1320	1315	606
165°	1433	1429	1427	1434	1429	404
175°	1490	1485	1484	1492	1484	142
180°	1493	1493	1493	1493	1493	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	409.2	409.2	409.2	409.2	409.2
2.5°	411.0	409.6	406.0	409.2	408.7
5°	409.6	408.2	405.0	408.7	408.2
7.5°	406.9	406.0	403.2	407.3	406.9
10°	403.2	402.7	400.5	404.6	404.1
12.5°	398.2	398.2	396.8	400.5	400.5
15°	392.7	393.1	391.8	395.9	395.4
17.5°	385.3	386.7	386.3	390.4	389.9
20°	377.5	378.9	379.4	384.0	384.0
22.5°	368.8	370.7	371.6	376.2	377.1
25°	359.2	362.0	363.3	368.4	368.8
27.5°	348.7	352.8	354.6	359.2	359.7
30°	338.1	341.8	345.0	350.1	351.0
32.5°	326.7	331.3	334.9	340.9	341.8
35°	314.3	319.8	324.4	330.8	332.2
37.5°	301.9	308.4	313.9	320.3	321.6
40°	290.0	296.0	302.4	309.3	311.1
42.5°	276.3	283.2	290.9	298.7	300.1
45°	262.1	270.8	279.5	287.3	289.6
47.5°	248.8	257.5	267.6	275.4	278.1
50°	234.1	244.2	254.3	263.5	266.2
52.5°	219.5	229.6	241.5	250.6	253.4
55°	205.3	214.9	228.6	237.8	240.5
57.5°	189.2	201.1	214.4	225.4	227.7
60°	173.7	185.6	200.7	211.2	214.9
62.5°	158.5	171.8	186.9	197.5	201.1
65°	142.0	156.7	172.3	183.7	187.4
67.5°	126.5	142.0	158.5	170.0	173.7
70°	110.4	126.0	143.4	155.8	159.0
72.5°	94.8	110.9	129.7	141.6	145.2
75°	78.8	95.8	115.0	127.8	132.0
77.5°	63.7	81.6	101.7	114.5	119.1
80°	49.9	68.3	88.4	102.2	105.8
82.5°	36.2	55.4	75.6	89.8	93.9
85°	24.3	43.5	64.1	77.9	82.5
87.5°	15.1	33.9	54.1	67.4	71.5
90°	10.8	41.9	70.8	90.9	96.9
92.5°	36.9	67.9	93.4	109.7	114.5
95°	75.3	100.8	127.6	143.4	147.6
97.5°	116.3	138.9	166.9	183.4	187.5
100°	166.6	183.2	211.4	226.1	229.3
102.5°	219.7	231.0	257.6	273.0	277.8
105°	273.1	283.4	305.0	319.9	327.1
107.5°	329.7	338.6	355.8	371.9	373.9
110°	387.0	395.7	410.5	418.8	425.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.5	452.0	464.8	474.9	478.6
115°	506.1	510.3	522.5	531.5	533.5
117.5°	562.6	565.4	578.0	584.2	584.3
120°	618.8	624.8	634.6	638.0	644.0
122.5°	677.7	678.8	690.1	695.7	693.1
125°	734.9	734.5	744.7	751.1	751.6
127.5°	786.8	789.9	796.7	802.7	804.7
130°	841.9	844.8	852.1	858.1	856.2
132.5°	898.4	900.2	904.6	910.1	911.7
135°	946.4	953.3	956.5	961.6	960.9
137.5°	1000.7	1003.7	1007.9	1011.3	1014.7
140°	1054.9	1056.8	1057.2	1062.1	1063.2
142.5°	1104.2	1106.5	1104.8	1109.8	1111.7
145°	1149.2	1153.3	1154.5	1156.0	1154.5
147.5°	1195.4	1200.7	1199.5	1198.8	1199.5
150°	1236.9	1241.1	1241.1	1241.1	1239.9
152.5°	1275.7	1278.0	1279.2	1282.6	1279.2
155°	1316.1	1316.1	1315.0	1319.6	1315.0
157.5°	1350.7	1348.4	1348.4	1351.9	1348.4
160°	1380.8	1379.6	1378.4	1381.9	1376.1
162.5°	1408.5	1405.0	1403.8	1410.8	1405.0
165°	1432.7	1429.2	1426.9	1433.9	1429.2
167.5°	1452.3	1447.7	1447.7	1454.6	1447.7
170°	1468.5	1462.7	1463.9	1470.8	1462.7
172.5°	1480.0	1475.4	1475.4	1483.5	1475.4
175°	1490.4	1484.7	1483.5	1491.6	1483.5
177.5°	1495.1	1489.3	1489.3	1497.4	1488.1
180°	1492.7	1492.7	1492.7	1492.7	1492.7

(END OF REPORT)