

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: P1001217

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001217
REPORT IS A COMBINATION OF REPORTS P995833 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-D
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

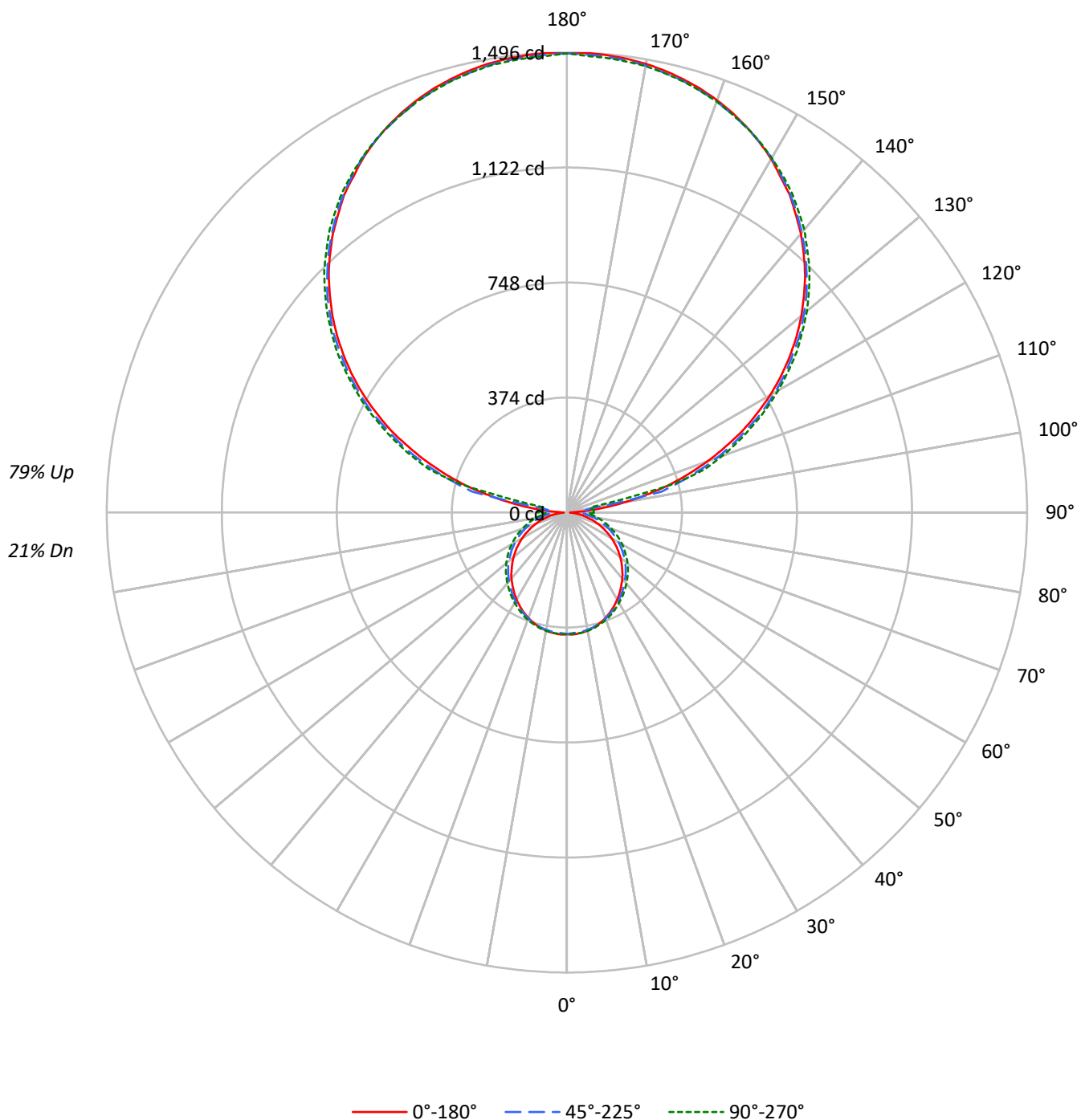
Lumens per Lamp: N/A
Luminaire Lumens: 5971.0 lumens
Efficiency: N/A
Efficacy: 124.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	100	100	100	100	89	89	89	89	67	67	67	48	48	48	29	29	29	21		
1	91	87	83	79	80	77	73	70	58	56	54	41	40	38	25	25	24	17		
2	82	75	69	64	73	67	62	57	51	47	44	36	34	32	22	21	20	14		
3	75	66	59	53	66	58	52	48	44	40	37	31	29	27	19	18	17	11		
4	68	58	50	45	60	52	45	40	39	35	31	28	25	23	17	15	14	10		
5	63	51	44	38	55	46	39	34	35	30	27	25	22	19	15	14	12	8		
6	58	46	38	33	51	41	34	29	31	26	23	22	19	17	14	12	11	7		
7	53	41	34	28	47	37	30	25	28	23	20	20	17	15	13	11	9	6		
8	49	37	30	25	43	33	27	22	25	21	18	18	15	13	11	10	8	6		
9	45	34	27	22	40	30	24	20	23	19	16	17	14	11	11	9	7	5		
10	42	31	24	19	37	28	21	17	21	17	14	15	12	10	10	8	7	5		

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	0.6
10°-20°	107.4	1.8
20°-30°	162.4	2.7
30°-40°	196.5	3.3
40°-50°	207.7	3.5
50°-60°	195.5	3.3
60°-70°	162.2	2.7
70°-80°	113.8	1.9
80°-90°	67.3	1.1
90°-100°	87.8	1.5
100°-110°	354.6	5.9
110°-120°	642.1	10.8
120°-130°	801.7	13.4
130°-140°	850.8	14.2
140°-150°	792.2	13.3
150°-160°	638.1	10.7
160°-170°	411.5	6.9
170°-180°	141.8	2.4
0°-30°	307.3	5.1
0°-40°	503.8	8.4
0°-60°	907.0	15.2
0°-90°	1250.4	20.9
90°-120°	1084.4	18.2
90°-150°	3529.2	59.1
90°-180°	4721.0	79.1
0°-180°	5971.0	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	8
95°	67	44	63	82	87	80
105°	340	356	378	399	362	356
115°	630	637	650	662	666	620
125°	884	888	897	908	912	789
135°	1095	1094	1102	1111	1116	844
145°	1262	1265	1265	1269	1273	789
155°	1383	1384	1381	1386	1382	638
165°	1459	1454	1454	1462	1452	412
175°	1493	1486	1487	1497	1484	142
180°	1493	1493	1493	1493	1493	

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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°	23.3	36.7	64.6	83.7	87.3
95°	67.2	43.8	63.1	81.8	86.9
97.5°	122.5	160.0	60.9	78.0	83.1
100°	188.0	219.6	82.8	75.7	80.0
102.5°	261.7	284.8	315.1	75.4	78.9
105°	340.1	355.5	377.5	398.7	362.1
107.5°	412.6	423.5	446.8	463.5	471.0
110°	485.8	495.4	517.7	530.0	536.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	556.9	568.9	585.7	594.4	602.3
115°	630.1	637.4	650.5	662.5	665.6
117.5°	696.0	703.1	719.7	727.9	731.5
120°	762.5	768.3	780.1	791.2	792.5
122.5°	825.0	827.3	841.5	851.4	852.3
125°	883.8	887.8	896.6	908.4	912.2
127.5°	940.7	941.4	955.8	962.7	964.7
130°	994.9	995.7	1006.1	1015.2	1017.8
132.5°	1045.2	1047.0	1056.8	1065.4	1067.0
135°	1095.0	1093.9	1101.5	1110.8	1115.6
137.5°	1139.7	1139.2	1146.6	1155.5	1156.6
140°	1183.2	1185.0	1187.7	1196.7	1200.2
142.5°	1221.8	1226.3	1227.0	1234.1	1235.8
145°	1262.0	1264.9	1264.9	1268.8	1272.7
147.5°	1293.2	1299.5	1298.4	1299.9	1302.9
150°	1327.9	1331.9	1330.8	1330.8	1331.9
152.5°	1356.5	1359.8	1357.6	1359.8	1358.7
155°	1383.3	1384.4	1381.0	1385.5	1382.2
157.5°	1406.7	1406.7	1402.3	1407.8	1402.3
160°	1426.8	1423.5	1422.4	1429.1	1422.4
162.5°	1444.7	1440.2	1439.1	1445.8	1438.0
165°	1459.2	1453.6	1453.6	1462.5	1452.5
167.5°	1471.5	1465.9	1464.8	1474.8	1463.7
170°	1481.5	1474.8	1475.9	1484.9	1473.7
172.5°	1488.2	1481.5	1482.6	1491.6	1479.3
175°	1492.7	1486.0	1487.1	1497.2	1483.8
177.5°	1496.0	1488.2	1490.5	1499.4	1486.0
180°	1492.7	1492.7	1492.7	1492.7	1492.7

(END OF REPORT)