

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: P1001166

Luminaire Tested: SA4XXDIP-B350D1205UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001166
REPORT IS A COMBINATION OF REPORTS P995782 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B350D1205UB27-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

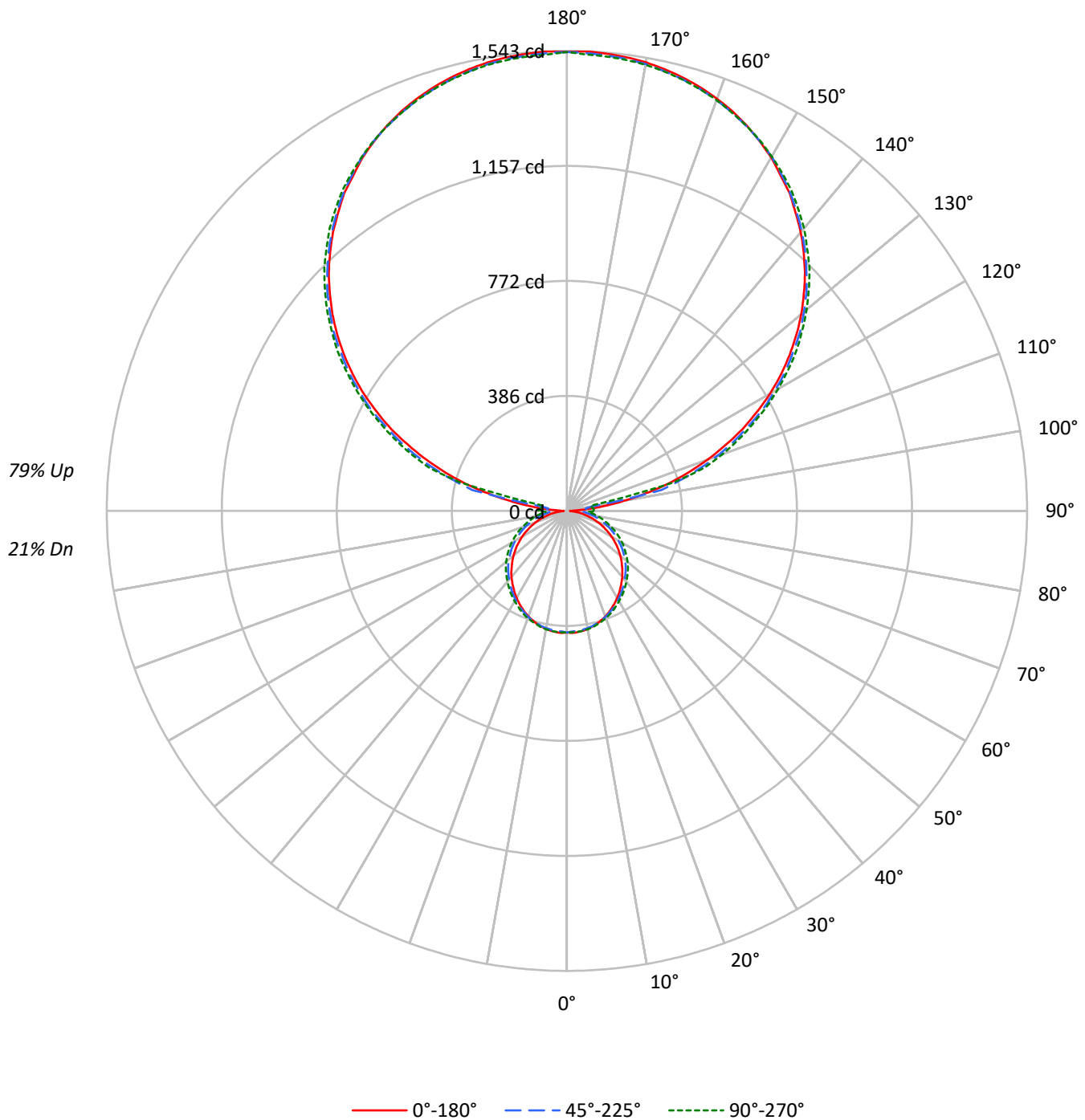
Lumens per Lamp: N/A
Luminaire Lumens: 6157.0 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3327	3327	3327
5°	3336	3240	3246
10°	3314	3176	3168
15°	3283	3105	3079
20°	3238	3027	2993
25°	3186	2942	2900
30°	3130	2857	2805
35°	3066	2770	2720
40°	3015	2687	2633
45°	2940	2609	2555
50°	2877	2520	2474
55°	2810	2435	2380
60°	2707	2328	2292
65°	2593	2214	2186
70°	2456	2082	2062
75°	2265	1937	1946
80°	2048	1789	1822
85°	1761	1640	1723

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°	38.7	0.6
10°-20°	110.8	1.8
20°-30°	167.5	2.7
30°-40°	202.6	3.3
40°-50°	214.2	3.5
50°-60°	201.6	3.3
60°-70°	167.3	2.7
70°-80°	117.4	1.9
80°-90°	69.4	1.1
90°-100°	90.5	1.5
100°-110°	365.7	5.9
110°-120°	662.1	10.8
120°-130°	826.7	13.4
130°-140°	877.4	14.2
140°-150°	816.9	13.3
150°-160°	658.0	10.7
160°-170°	424.3	6.9
170°-180°	146.2	2.4
0°-30°	316.9	5.1
0°-40°	519.5	8.4
0°-60°	935.3	15.2
0°-90°	1289.3	20.9
90°-120°	1118.2	18.2
90°-150°	3639.2	59.1
90°-180°	4868.0	79.1
0°-180°	6157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	408	407	404	408	407	39
15°	392	392	391	395	394	110
25°	358	361	362	367	368	165
35°	313	319	324	330	331	196
45°	261	270	279	286	289	202
55°	205	214	228	237	240	182
65°	142	156	172	183	187	140
75°	79	96	115	128	132	84
85°	24	43	64	78	82	25
90°	11	42	70	91	97	8
95°	69	45	65	84	90	83
105°	351	367	389	411	373	367
115°	650	657	671	683	686	640
125°	911	916	925	937	941	814
135°	1129	1128	1136	1145	1150	870
145°	1301	1304	1304	1308	1312	813
155°	1426	1428	1424	1429	1425	658
165°	1505	1499	1499	1508	1498	425
175°	1539	1532	1533	1544	1530	147
180°	1539	1539	1539	1539	1539	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	408.0	408.0	408.0	408.0	408.0
2.5°	409.8	408.4	404.8	408.0	407.5
5°	408.4	407.1	403.9	407.5	407.1
7.5°	405.7	404.8	402.0	406.2	405.7
10°	402.0	401.6	399.3	403.4	403.0
12.5°	397.0	397.0	395.7	399.3	399.3
15°	391.5	392.0	390.6	394.7	394.3
17.5°	384.2	385.6	385.1	389.3	388.8
20°	376.5	377.8	378.3	382.9	382.9
22.5°	367.8	369.6	370.5	375.1	376.0
25°	358.2	360.9	362.3	367.3	367.8
27.5°	347.7	351.8	353.6	358.2	358.6
30°	337.2	340.8	344.0	349.1	350.0
32.5°	325.8	330.3	334.0	339.9	340.8
35°	313.4	318.9	323.5	329.9	331.2
37.5°	301.1	307.5	313.0	319.4	320.7
40°	289.2	295.1	301.5	308.4	310.2
42.5°	275.5	282.3	290.1	297.9	299.3
45°	261.3	270.0	278.7	286.5	288.7
47.5°	248.1	256.8	266.8	274.6	277.3
50°	233.5	243.5	253.6	262.7	265.4
52.5°	218.8	228.9	240.8	249.9	252.7
55°	204.7	214.3	228.0	237.1	239.9
57.5°	188.7	200.6	213.8	224.8	227.1
60°	173.2	185.0	200.1	210.6	214.3
62.5°	158.1	171.3	186.4	196.9	200.6
65°	141.6	156.3	171.8	183.2	186.9
67.5°	126.1	141.6	158.1	169.5	173.2
70°	110.1	125.6	143.0	155.3	158.5
72.5°	94.6	110.6	129.3	141.2	144.8
75°	78.6	95.5	114.7	127.5	131.6
77.5°	63.5	81.3	101.4	114.2	118.8
80°	49.8	68.1	88.2	101.9	105.5
82.5°	36.1	55.3	75.4	89.5	93.7
85°	24.2	43.4	64.0	77.7	82.2
87.5°	15.1	33.8	53.9	67.2	71.3
90°	10.8	41.7	70.5	90.7	96.6
92.5°	24.2	37.8	66.7	86.4	90.0
95°	69.2	45.2	65.0	84.3	89.6
97.5°	126.4	164.9	62.8	80.4	85.7
100°	193.8	226.4	85.4	78.2	82.5
102.5°	269.8	293.7	324.8	77.7	81.4
105°	350.6	366.6	389.4	411.1	373.3
107.5°	425.5	436.7	460.8	477.9	485.7
110°	501.0	510.9	533.7	546.5	553.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	574.2	586.6	604.0	612.9	621.2
115°	649.7	657.3	670.8	683.1	686.3
117.5°	717.6	725.0	742.2	750.6	754.2
120°	786.3	792.3	804.3	815.7	817.1
122.5°	850.8	853.1	867.7	878.0	878.9
125°	911.3	915.5	924.6	936.7	940.6
127.5°	970.0	970.7	985.6	992.6	994.7
130°	1026.0	1026.6	1037.4	1046.8	1049.6
132.5°	1077.8	1079.6	1089.7	1098.7	1100.2
135°	1129.1	1128.0	1135.8	1145.4	1150.5
137.5°	1175.2	1174.8	1182.3	1191.4	1192.6
140°	1220.1	1222.0	1224.7	1234.1	1237.5
142.5°	1259.9	1264.6	1265.2	1272.5	1274.4
145°	1301.4	1304.3	1304.3	1308.2	1312.4
147.5°	1333.6	1340.0	1338.9	1340.5	1343.5
150°	1369.3	1373.4	1372.3	1372.3	1373.4
152.5°	1398.7	1402.2	1399.9	1402.2	1401.1
155°	1426.4	1427.5	1424.1	1428.7	1425.2
157.5°	1450.6	1450.6	1445.9	1451.7	1445.9
160°	1471.3	1467.8	1466.7	1473.6	1466.7
162.5°	1489.7	1485.1	1483.9	1490.8	1482.8
165°	1504.7	1498.9	1498.9	1508.1	1497.8
167.5°	1517.3	1511.6	1510.4	1520.8	1509.3
170°	1527.7	1520.8	1521.9	1531.1	1519.6
172.5°	1534.6	1527.7	1528.8	1538.0	1525.4
175°	1539.2	1532.3	1533.4	1543.8	1530.0
177.5°	1542.7	1534.6	1536.9	1546.1	1532.3
180°	1539.2	1539.2	1539.2	1539.2	1539.2

(END OF REPORT)