

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: P1000969

Luminaire Tested: SA4XXDIP-B1195D365UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000969
REPORT IS A COMBINATION OF REPORTS P995585 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D365UB40-4F0-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

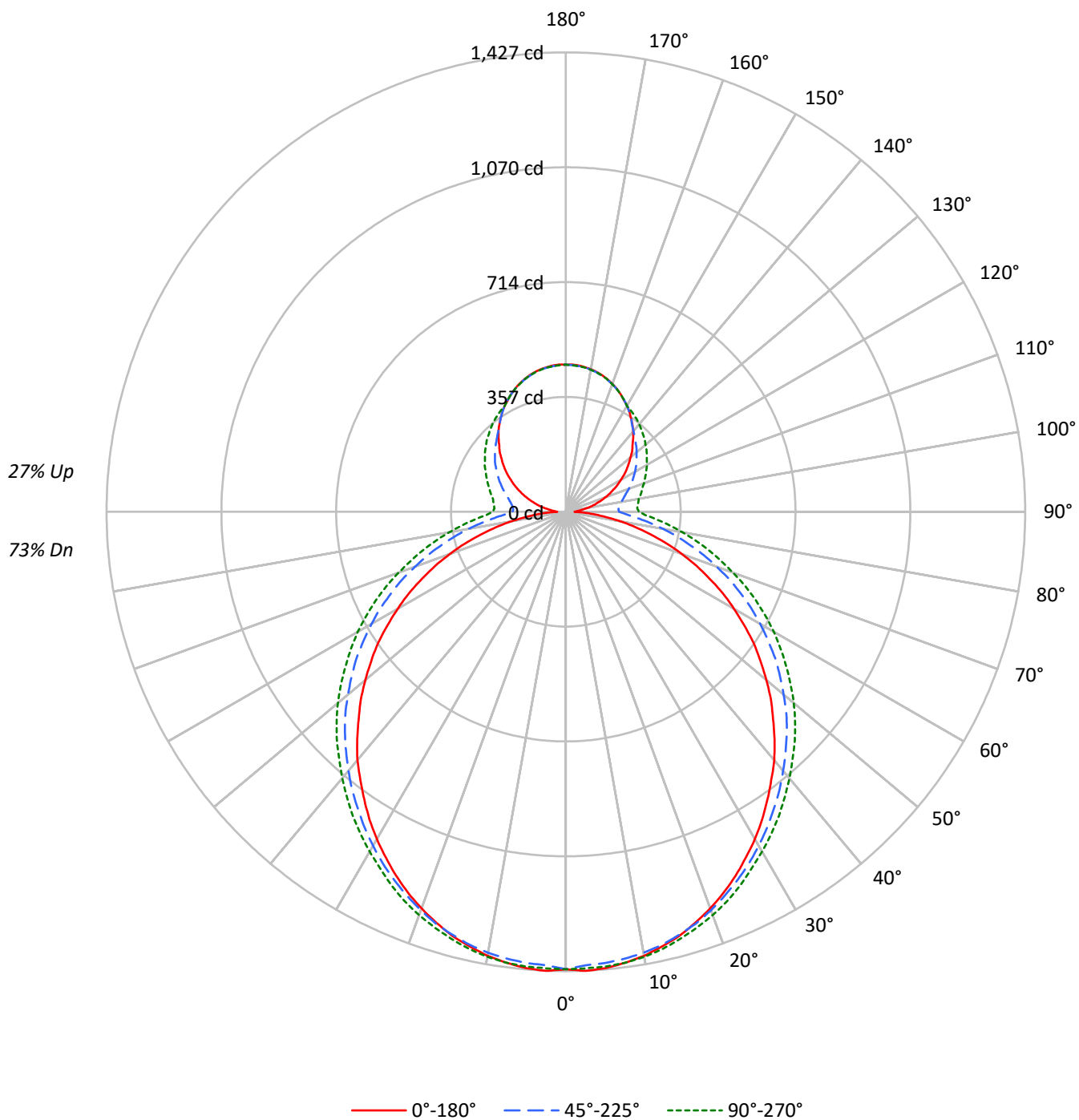
Lumens per Lamp: N/A
Luminaire Lumens: 6114.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	78	78	78
1	102	96	92	88	96	92	87	84	82	79	76	74	71	69	66	64	63
2	92	83	76	70	87	79	73	68	71	66	62	64	60	57	57	54	52
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43
4	76	64	55	49	72	61	53	47	55	49	43	50	44	40	45	40	37
5	70	57	48	42	66	54	46	40	49	43	37	45	39	35	40	35	32
6	64	51	42	36	61	49	41	35	44	38	32	40	34	30	36	32	28
7	60	46	38	32	56	44	36	31	40	33	29	37	31	27	33	28	25
8	55	42	34	28	52	40	32	27	37	30	25	33	28	24	30	26	22
9	52	38	30	25	49	37	29	24	34	27	23	31	25	21	28	23	20
10	48	35	28	22	46	34	27	22	31	25	21	28	23	19	26	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11588	11588	11588
5°	11620	11286	11307
10°	11545	11064	11033
15°	11437	10814	10723
20°	11277	10544	10422
25°	11096	10246	10099
30°	10901	9951	9769
35°	10681	9649	9474
40°	10502	9359	9170
45°	10241	9087	8901
50°	10018	8778	8617
55°	9786	8480	8290
60°	9428	8109	7982
65°	9034	7709	7612
70°	8556	7253	7184
75°	7887	6745	6776
80°	7136	6228	6350
85°	6134	5709	6003

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10241 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	2.2
10°-20°	385.8	6.3
20°-30°	583.3	9.5
30°-40°	705.7	11.5
40°-50°	746.0	12.2
50°-60°	702.1	11.5
60°-70°	582.6	9.5
70°-80°	408.9	6.7
80°-90°	231.5	3.8
90°-100°	167.0	2.7
100°-110°	190.8	3.1
110°-120°	219.8	3.6
120°-130°	238.3	3.9
130°-140°	241.1	3.9
140°-150°	224.0	3.7
150°-160°	185.6	3.0
160°-170°	123.5	2.0
170°-180°	43.2	0.7
0°-30°	1103.7	18.1
0°-40°	1809.5	29.6
0°-60°	3257.6	53.3
0°-90°	4480.6	73.3
90°-120°	577.6	9.4
90°-150°	1281.0	21.0
90°-180°	1633.0	26.7
0°-180°	6114.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1423	1418	1407	1420	1418	135
15°	1364	1365	1361	1375	1373	384
25°	1248	1257	1262	1279	1281	575
35°	1092	1111	1127	1149	1154	684
45°	910	940	971	998	1006	704
55°	713	746	794	826	836	635
65°	493	544	598	638	651	489
75°	274	333	399	444	458	291
85°	84	151	223	270	286	88
90°	27	94	165	214	227	19
95°	42	98	165	209	224	39
105°	97	129	189	230	244	104
115°	164	178	228	263	274	162
125°	231	229	269	298	307	206
135°	293	295	306	331	339	227
145°	353	353	353	363	368	221
155°	403	403	403	404	403	186
165°	439	438	437	439	438	124
175°	456	454	454	457	454	43
180°	457	457	457	457	457	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.1	1421.1	1421.1	1421.1	1421.1
2.5°	1427.4	1422.7	1409.9	1421.1	1419.5
5°	1422.7	1417.9	1406.7	1419.5	1417.9
7.5°	1413.1	1409.9	1400.4	1414.7	1413.1
10°	1400.4	1398.8	1390.8	1405.2	1403.6
12.5°	1382.9	1382.9	1378.1	1390.8	1390.8
15°	1363.8	1365.4	1360.6	1374.9	1373.3
17.5°	1338.3	1343.1	1341.5	1355.8	1354.2
20°	1311.3	1316.0	1317.6	1333.5	1333.5
22.5°	1281.0	1287.4	1290.6	1306.5	1309.7
25°	1247.6	1257.2	1261.9	1279.4	1281.0
27.5°	1211.0	1225.3	1231.7	1247.6	1249.2
30°	1174.4	1187.1	1198.3	1215.8	1219.0
32.5°	1134.6	1150.5	1163.3	1184.0	1187.1
35°	1091.7	1110.8	1126.7	1148.9	1153.7
37.5°	1048.7	1071.0	1090.1	1112.3	1117.1
40°	1007.3	1028.0	1050.3	1074.2	1080.5
42.5°	959.6	983.4	1010.5	1037.6	1042.3
45°	910.2	940.5	970.7	997.8	1005.7
47.5°	864.1	894.3	929.3	956.4	965.9
50°	813.2	848.2	883.2	915.0	924.6
52.5°	762.3	797.3	838.6	870.5	880.0
55°	712.9	746.3	794.1	825.9	835.5
57.5°	657.2	698.6	744.7	782.9	790.9
60°	603.1	644.5	697.0	733.6	746.3
62.5°	550.6	596.8	649.3	685.9	698.6
65°	493.3	544.2	598.3	638.1	650.9
67.5°	439.2	493.3	550.6	590.4	603.1
70°	383.5	437.6	498.1	541.1	552.2
72.5°	329.4	385.1	450.3	491.7	504.5
75°	273.7	332.6	399.4	444.0	458.3
77.5°	221.2	283.3	353.3	397.8	413.7
80°	173.5	237.1	307.1	354.9	367.6
82.5°	125.7	192.6	262.6	311.9	326.2
85°	84.3	151.2	222.8	270.5	286.4
87.5°	52.5	117.8	187.8	233.9	248.2
90°	26.6	94.0	165.3	213.6	227.0
92.5°	33.1	93.4	163.6	209.2	222.3
95°	41.9	97.6	165.3	209.3	223.6
97.5°	53.0	102.0	170.1	212.9	227.2
100°	67.0	109.8	175.0	218.7	229.8
102.5°	83.2	118.6	181.9	224.4	237.4
105°	96.7	128.8	189.1	230.0	243.7
107.5°	114.0	141.4	197.5	238.7	249.4
110°	130.0	153.1	208.4	244.3	258.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.8	165.9	217.7	252.8	265.5
115°	163.6	178.0	228.2	262.8	273.6
117.5°	180.9	190.5	237.9	270.3	281.9
120°	196.7	202.9	248.0	278.0	291.4
122.5°	214.8	215.1	257.7	288.4	297.8
125°	230.8	229.2	268.7	298.2	307.0
127.5°	246.7	246.2	277.3	305.2	316.0
130°	262.1	261.6	287.0	315.0	323.0
132.5°	279.4	278.5	297.3	323.6	332.8
135°	292.7	294.8	305.9	330.7	339.1
137.5°	309.3	308.7	315.9	338.6	346.9
140°	325.9	325.0	326.6	346.9	354.5
142.5°	339.5	340.2	338.2	355.7	362.1
145°	353.3	353.1	353.4	362.6	367.9
147.5°	367.4	367.6	367.2	368.5	374.5
150°	380.1	380.0	380.0	380.0	379.6
152.5°	390.6	391.3	391.6	392.7	391.6
155°	402.9	402.9	402.6	404.0	402.6
157.5°	413.5	412.8	412.8	413.9	412.8
160°	422.7	422.4	422.0	423.1	421.3
162.5°	431.2	430.1	429.8	431.9	430.1
165°	438.6	437.6	436.9	439.0	437.6
167.5°	444.6	443.2	443.2	445.3	443.2
170°	449.6	447.8	448.2	450.3	447.8
172.5°	453.1	451.7	451.7	454.2	451.7
175°	456.3	454.5	454.2	456.7	454.2
177.5°	457.7	455.9	455.9	458.4	455.6
180°	457.0	457.0	457.0	457.0	457.0

(END OF REPORT)