

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: P1000954

Luminaire Tested: SA4XXDIP-B1195D365UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000954
REPORT IS A COMBINATION OF REPORTS P995570 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D365UB30-4F0-XX-W2A-F1
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

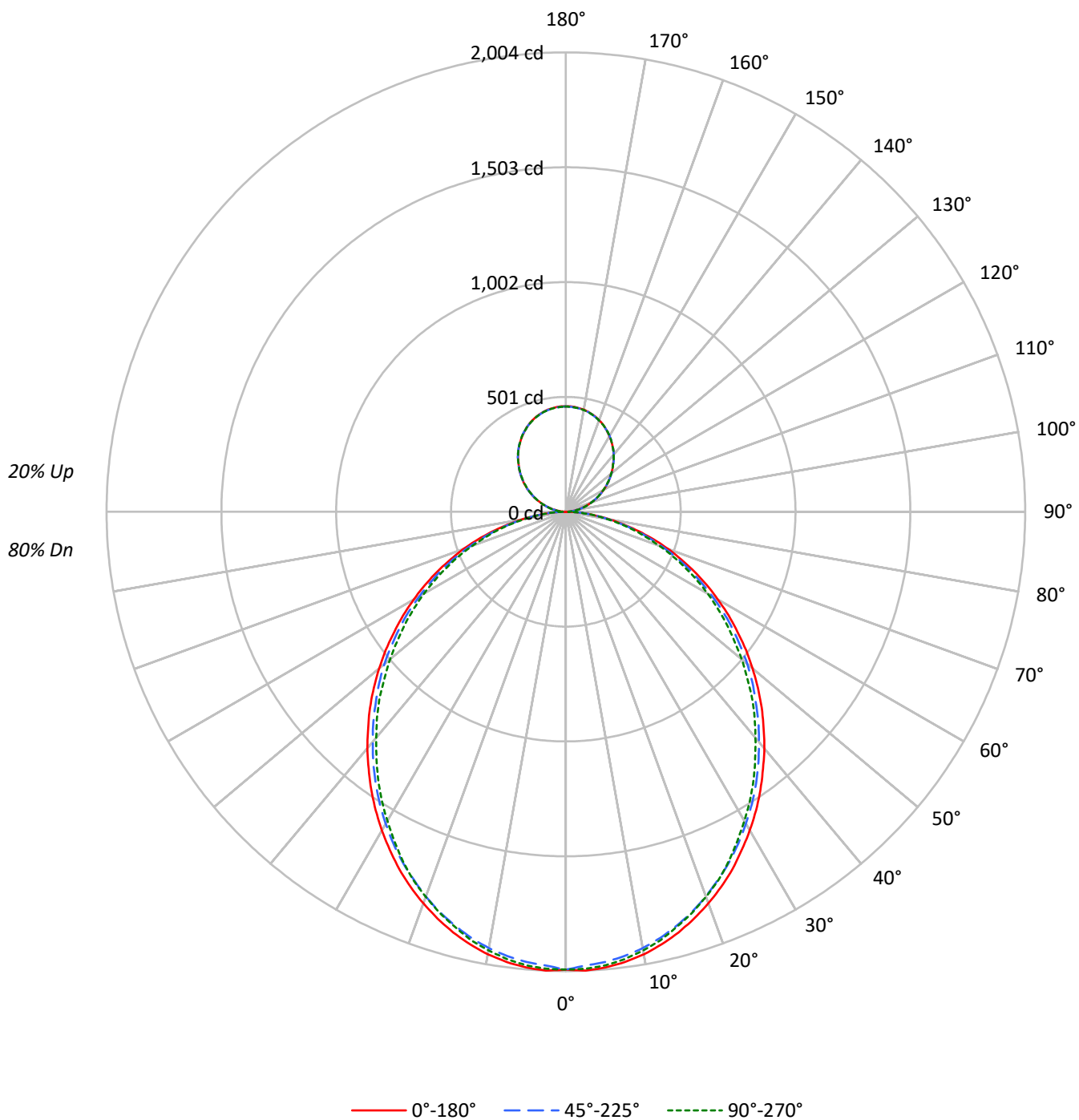
Lumens per Lamp: N/A
Luminaire Lumens: 6402.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P1000954

CATALOG NUMBER: SA4XXDIP-B1195D365UB30-4F0-XX-W2A-F1

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	114	114	114	114	109	109	109	109	100	100	100	92	92	92	84	84	84
1	104	100	96	92	100	96	92	89	88	85	82	81	78	76	74	72	71
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	60
3	87	77	69	63	83	74	67	61	68	62	57	63	58	54	58	54	51
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	47	42	38
6	68	55	46	40	64	53	45	39	49	42	37	46	40	35	42	37	34
7	63	50	41	35	60	48	40	35	45	38	33	42	36	31	39	34	30
8	58	45	37	32	56	44	36	31	41	34	30	38	32	28	36	31	27
9	54	42	34	28	52	40	33	28	38	31	27	35	30	25	33	28	24
10	51	38	31	26	49	37	30	25	35	28	24	33	27	23	31	26	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16285	16285	16285
5°	16299	15817	15836
10°	16161	15378	15270
15°	15929	14856	14632
20°	15633	14291	13971
25°	15300	13695	13259
30°	14899	13050	12478
35°	14482	12389	11722
40°	14048	11678	10919
45°	13593	10965	10169
50°	13090	10275	9337
55°	12542	9467	8511
60°	11982	8583	7650
65°	11341	7671	6681
70°	10604	6572	5643
75°	9501	5298	4518
80°	8094	3829	3178
85°	6287	2132	1710

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13593 cd/sqm

TEST NUMBER: P1000954

CATALOG NUMBER: SA4XXDIP-B1195D365UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	2.9
10°-20°	530.3	8.3
20°-30°	780.5	12.2
30°-40°	907.3	14.2
40°-50°	907.2	14.2
50°-60°	793.4	12.4
60°-70°	589.1	9.2
70°-80°	334.2	5.2
80°-90°	96.7	1.5
90°-100°	30.0	0.5
100°-110°	89.7	1.4
110°-120°	152.4	2.4
120°-130°	201.0	3.1
130°-140°	225.8	3.5
140°-150°	221.9	3.5
150°-160°	186.6	2.9
160°-170°	124.2	1.9
170°-180°	43.5	0.7
0°-30°	1499.1	23.4
0°-40°	2406.3	37.6
0°-60°	4107.0	64.2
0°-90°	5127.0	80.1
90°-120°	272.1	4.3
90°-150°	920.8	14.4
90°-180°	1275.0	19.9
0°-180°	6402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1997	1997	1997	1997	1997	
5°	1996	1989	1972	1989	1986	189
15°	1900	1893	1869	1879	1874	535
25°	1720	1709	1687	1688	1682	792
35°	1480	1469	1447	1435	1427	926
45°	1208	1197	1171	1154	1149	931
55°	914	909	886	867	858	818
65°	619	611	595	579	571	613
75°	330	322	314	307	306	350
85°	86	86	83	83	82	93
90°	1	5	8	10	11	7
95°	21	24	27	28	28	23
105°	83	83	85	86	87	88
115°	155	155	154	154	154	153
125°	226	226	225	225	224	201
135°	291	293	293	292	291	225
145°	354	355	355	355	354	221
155°	405	405	405	406	405	186
165°	441	440	439	441	440	124
175°	459	457	457	459	457	44
180°	460	460	460	460	460	

TEST NUMBER: P1000954

CATALOG NUMBER: SA4XXDIP-B1195D365UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1997.1	1997.1	1997.1	1997.1	1997.1
2.5°	2003.5	1998.7	1981.1	1997.1	1995.5
5°	1995.5	1989.1	1971.5	1989.1	1985.9
7.5°	1981.1	1974.7	1955.5	1969.9	1968.3
10°	1960.3	1953.9	1933.1	1945.9	1942.7
12.5°	1933.1	1926.7	1904.3	1918.7	1913.9
15°	1899.5	1893.1	1869.1	1878.7	1873.9
17.5°	1861.1	1853.1	1830.7	1837.1	1833.9
20°	1817.9	1809.9	1785.9	1790.7	1787.5
22.5°	1771.5	1760.3	1736.3	1745.9	1739.5
25°	1720.3	1709.1	1686.7	1688.3	1681.9
27.5°	1662.7	1651.5	1630.7	1627.5	1619.5
30°	1605.1	1592.3	1571.5	1565.1	1557.1
32.5°	1544.2	1533.0	1510.6	1502.6	1494.6
35°	1480.2	1469.0	1446.6	1435.4	1427.4
37.5°	1413.0	1403.4	1379.4	1368.2	1357.0
40°	1347.4	1334.6	1310.6	1294.6	1286.6
42.5°	1277.0	1270.6	1243.4	1224.2	1219.4
45°	1208.2	1197.0	1171.4	1153.8	1149.0
47.5°	1136.2	1128.2	1104.2	1085.0	1072.2
50°	1062.6	1056.2	1033.8	1011.4	1001.8
52.5°	990.6	982.6	958.6	939.4	926.5
55°	913.7	908.9	886.5	867.3	857.7
57.5°	841.7	836.9	814.5	795.3	785.7
60°	766.5	758.5	737.7	723.3	715.3
62.5°	692.9	686.5	664.1	651.3	643.3
65°	619.3	611.3	595.3	579.3	571.3
67.5°	544.1	537.7	521.7	505.7	504.1
70°	475.3	464.1	451.3	438.5	433.7
72.5°	401.7	390.5	380.9	371.3	366.5
75°	329.7	321.7	313.7	307.2	305.6
77.5°	259.2	256.0	248.0	246.4	241.6
80°	196.8	192.0	188.8	185.6	184.0
82.5°	136.0	134.4	134.4	132.8	131.2
85°	86.4	86.4	83.2	83.2	81.6
87.5°	41.6	40.0	38.4	38.4	38.4
90°	1.1	5.0	7.8	10.0	10.7
92.5°	9.2	13.9	15.6	16.7	17.1
95°	21.3	24.5	27.0	28.1	28.1
97.5°	34.1	37.0	39.8	41.2	41.2
100°	49.8	51.2	54.4	55.1	55.1
102.5°	66.1	66.5	69.3	70.4	70.7
105°	82.8	83.2	84.6	85.7	86.7
107.5°	100.2	100.6	100.9	102.4	102.0
110°	118.0	118.7	118.3	117.6	118.7

TEST NUMBER: P1000954

CATALOG NUMBER: SA4XXDIP-B1195D365UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	136.5	136.5	135.8	135.8	135.8
115°	155.0	155.0	154.2	153.9	153.5
117.5°	172.4	172.4	172.0	170.9	169.9
120°	189.8	191.2	190.1	188.4	189.1
122.5°	207.9	208.3	207.9	206.8	205.1
125°	225.7	225.7	225.3	224.6	223.9
127.5°	241.7	242.7	242.0	241.3	241.0
130°	258.7	259.8	259.8	259.1	257.7
132.5°	276.1	276.9	276.5	275.8	275.4
135°	291.1	293.2	293.2	292.5	291.4
137.5°	307.8	308.8	309.5	308.5	308.8
140°	324.5	325.2	325.2	324.8	324.5
142.5°	339.8	340.5	340.1	340.1	340.1
145°	353.6	355.0	355.4	355.0	354.0
147.5°	367.8	369.6	369.3	368.9	368.5
150°	380.6	382.1	382.1	382.1	381.7
152.5°	392.7	393.4	393.8	394.8	393.8
155°	405.2	405.2	404.8	406.2	404.8
157.5°	415.8	415.1	415.1	416.2	415.1
160°	425.1	424.7	424.3	425.4	423.6
162.5°	433.6	432.5	432.2	434.3	432.5
165°	441.0	440.0	439.3	441.4	440.0
167.5°	447.1	445.7	445.7	447.8	445.7
170°	452.1	450.3	450.6	452.8	450.3
172.5°	455.6	454.2	454.2	456.7	454.2
175°	458.8	457.0	456.7	459.2	456.7
177.5°	460.2	458.5	458.5	460.9	458.1
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)