

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: P1000982

Luminaire Tested: SA4XXDIP-B1195D365UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000982
REPORT IS A COMBINATION OF REPORTS P995598 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D365UB50-4F0-XX-W2A-F4
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

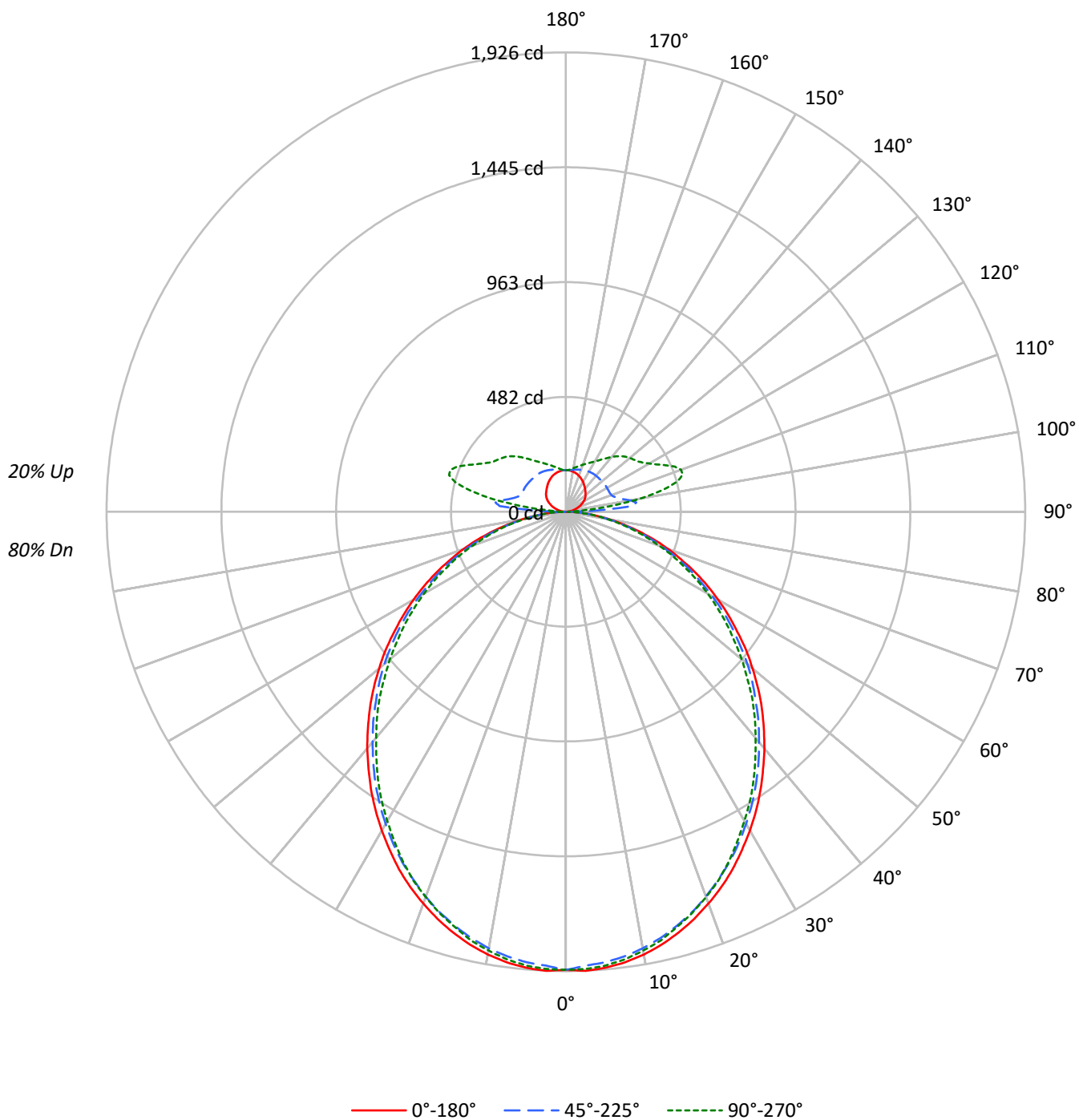
Lumens per Lamp: N/A
Luminaire Lumens: 6199.5 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	74	72	70
2	95	87	81	75	91	84	78	73	77	72	68	71	67	64	65	62	59
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43
5	73	61	52	46	70	59	51	45	54	48	42	50	45	40	46	42	38
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	33
7	63	50	41	35	60	48	40	35	45	38	33	41	36	31	38	34	30
8	58	45	37	32	56	44	36	31	41	34	29	38	32	28	35	30	27
9	54	41	34	28	52	40	33	28	37	31	27	35	29	25	33	28	24
10	51	38	31	26	49	37	30	25	35	28	24	32	27	23	30	26	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15660	15660	15660
5°	15672	15209	15228
10°	15540	14787	14684
15°	15317	14285	14069
20°	15032	13742	13434
25°	14712	13168	12749
30°	14326	12548	11998
35°	13926	11912	11272
40°	13508	11229	10500
45°	13071	10544	9778
50°	12586	9879	8978
55°	12060	9104	8184
60°	11522	8254	7356
65°	10906	7376	6424
70°	10196	6318	5425
75°	9135	5093	4345
80°	7786	3683	3057
85°	6047	2050	1645

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13071 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	2.9
10°-20°	509.9	8.2
20°-30°	750.5	12.1
30°-40°	872.4	14.1
40°-50°	872.3	14.1
50°-60°	763.0	12.3
60°-70°	566.4	9.1
70°-80°	321.4	5.2
80°-90°	92.7	1.5
90°-100°	129.3	2.1
100°-110°	262.9	4.2
110°-120°	234.3	3.8
120°-130°	196.8	3.2
130°-140°	164.2	2.6
140°-150°	125.4	2.0
150°-160°	88.2	1.4
160°-170°	51.9	0.8
170°-180°	16.9	0.3
0°-30°	1441.4	23.3
0°-40°	2313.8	37.3
0°-60°	3949.1	63.7
0°-90°	4929.7	79.5
90°-120°	626.5	10.1
90°-150°	1113.0	18.0
90°-180°	1270.0	20.5
0°-180°	6199.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1920	1920	1920	1920	1920	
5°	1919	1913	1896	1913	1910	182
15°	1826	1820	1797	1806	1802	515
25°	1654	1643	1622	1623	1617	761
35°	1423	1413	1391	1380	1373	890
45°	1162	1151	1126	1109	1105	896
55°	879	874	852	834	825	787
65°	596	588	572	557	549	589
75°	317	309	302	295	294	336
85°	83	83	80	80	78	89
90°	0	3	6	7	7	6
95°	11	36	279	138	83	12
105°	40	58	224	483	481	43
115°	70	88	200	384	462	70
125°	98	117	199	327	368	87
135°	117	139	197	290	330	90
145°	134	154	196	245	269	84
155°	153	165	191	216	225	70
165°	166	172	183	194	197	47
175°	174	174	175	178	177	16
180°	174	174	174	174	174	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1920.4	1920.4	1920.4	1920.4	1920.4
2.5°	1926.5	1921.9	1905.0	1920.4	1918.8
5°	1918.8	1912.7	1895.7	1912.7	1909.6
7.5°	1905.0	1898.8	1880.4	1894.2	1892.7
10°	1885.0	1878.8	1858.8	1871.1	1868.1
12.5°	1858.8	1852.7	1831.1	1845.0	1840.4
15°	1826.5	1820.3	1797.3	1806.5	1801.9
17.5°	1789.6	1781.9	1760.3	1766.5	1763.4
20°	1748.0	1740.3	1717.3	1721.9	1718.8
22.5°	1703.4	1692.6	1669.6	1678.8	1672.6
25°	1654.2	1643.4	1621.8	1623.4	1617.2
27.5°	1598.8	1588.0	1568.0	1564.9	1557.2
30°	1543.4	1531.1	1511.1	1504.9	1497.2
32.5°	1484.9	1474.1	1452.6	1444.9	1437.2
35°	1423.4	1412.6	1391.0	1380.3	1372.6
37.5°	1358.7	1349.5	1326.4	1315.6	1304.9
40°	1295.6	1283.3	1260.2	1244.9	1237.2
42.5°	1227.9	1221.8	1195.6	1177.1	1172.5
45°	1161.8	1151.0	1126.4	1109.4	1104.8
47.5°	1092.5	1084.8	1061.7	1043.3	1031.0
50°	1021.7	1015.6	994.0	972.5	963.3
52.5°	952.5	944.8	921.7	903.3	890.9
55°	878.6	874.0	852.5	834.0	824.8
57.5°	809.4	804.8	783.2	764.8	755.5
60°	737.1	729.4	709.4	695.5	687.8
62.5°	666.3	660.1	638.6	626.3	618.6
65°	595.5	587.8	572.4	557.0	549.3
67.5°	523.2	517.0	501.6	486.2	484.7
70°	457.0	446.2	433.9	421.6	417.0
72.5°	386.2	375.5	366.2	357.0	352.4
75°	317.0	309.3	301.6	295.4	293.9
77.5°	249.3	246.2	238.5	237.0	232.4
80°	189.3	184.7	181.6	178.5	177.0
82.5°	130.8	129.3	129.3	127.7	126.2
85°	83.1	83.1	80.0	80.0	78.5
87.5°	40.0	38.5	36.9	36.9	36.9
90°	0.3	2.7	6.2	6.8	7.2
92.5°	4.8	26.4	134.0	44.2	31.1
95°	11.3	35.6	278.6	138.0	83.4
97.5°	18.8	39.4	298.1	281.6	200.3
100°	26.0	44.4	274.9	389.8	313.5
102.5°	32.8	50.6	245.8	457.4	411.9
105°	40.0	58.0	224.3	482.9	481.0
107.5°	47.9	65.4	210.2	475.2	513.8
110°	55.7	73.0	203.7	447.8	514.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.2	80.5	200.7	414.3	494.3
115°	70.4	88.4	200.0	384.2	461.8
117.5°	77.9	95.7	199.6	360.6	430.1
120°	85.5	102.9	199.6	344.8	404.1
122.5°	92.3	109.9	199.3	334.4	383.6
125°	98.1	116.6	199.0	327.0	368.5
127.5°	103.6	122.7	198.3	320.0	358.9
130°	108.0	128.8	197.9	311.6	350.7
132.5°	112.5	133.8	197.6	301.6	341.5
135°	116.6	138.8	197.3	290.2	329.5
137.5°	120.7	143.0	197.3	278.0	315.5
140°	125.1	147.0	196.9	266.0	300.1
142.5°	129.9	150.6	196.9	254.8	283.7
145°	134.3	153.8	196.2	244.8	269.0
147.5°	139.5	156.9	195.2	236.4	255.4
150°	144.3	159.8	194.2	228.7	244.1
152.5°	148.7	162.6	192.5	222.2	233.8
155°	152.8	165.0	190.8	216.0	225.3
157.5°	156.9	167.1	189.0	210.2	217.4
160°	160.7	169.0	187.0	204.4	210.2
162.5°	164.1	170.6	184.9	198.8	203.4
165°	166.5	171.6	182.9	193.6	196.6
167.5°	169.2	172.4	180.8	189.2	191.1
170°	170.9	173.1	178.8	184.8	186.0
172.5°	172.6	173.6	176.7	180.8	180.8
175°	173.7	174.0	175.4	177.8	177.1
177.5°	174.3	174.0	174.3	175.6	174.3
180°	174.0	174.0	174.0	174.0	174.0

(END OF REPORT)