

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: P1000980

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000980
REPORT IS A COMBINATION OF REPORTS P995596 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-F
Description: Define 4 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

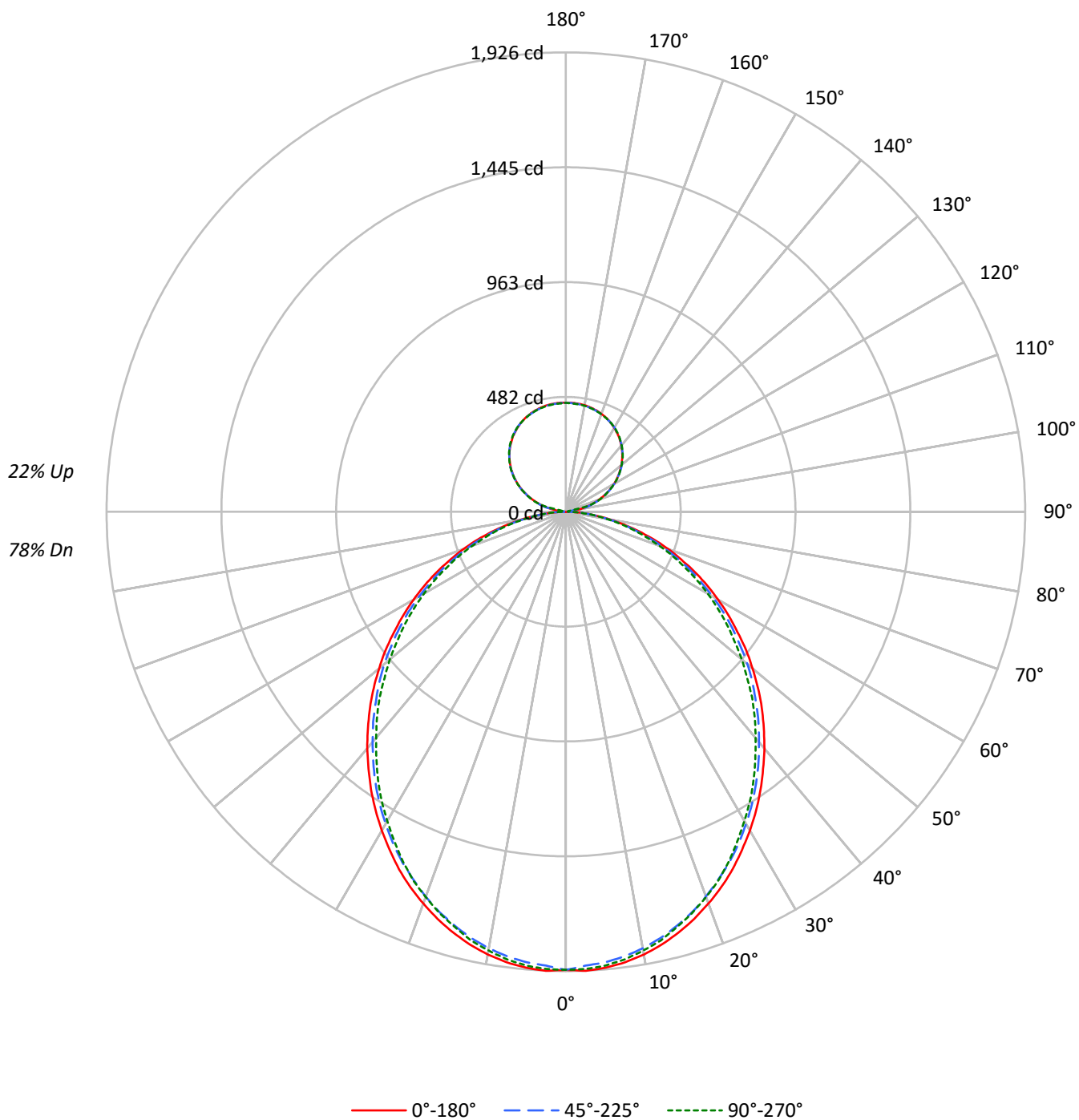
Lumens per Lamp: N/A
Luminaire Lumens: 6344.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	99	99	99	90	90	90	82	82	82
1	104	99	95	92	99	95	91	88	87	84	81	79	77	75	72	70	69
2	95	87	80	75	90	83	77	72	76	71	67	69	66	63	63	61	58
3	86	76	69	63	82	73	66	61	67	61	57	61	57	53	56	53	49
4	79	68	59	53	75	65	57	52	60	53	48	55	50	45	50	46	43
5	73	61	52	46	69	58	50	44	54	47	42	49	44	40	45	41	37
6	67	55	46	40	64	52	45	39	48	42	37	45	39	35	41	36	33
7	62	49	41	35	59	48	40	34	44	37	33	41	35	31	38	33	29
8	58	45	37	31	55	43	36	31	40	34	29	37	32	28	35	30	26
9	54	41	33	28	52	40	32	27	37	31	26	34	29	25	32	27	24
10	51	38	30	25	48	37	30	25	34	28	24	32	26	23	30	25	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	8.0
20°-30°	750.5	11.8
30°-40°	872.4	13.8
40°-50°	872.3	13.8
50°-60°	763.0	12.0
60°-70°	566.4	8.9
70°-80°	321.4	5.1
80°-90°	93.0	1.5
90°-100°	15.2	0.2
100°-110°	99.9	1.6
110°-120°	190.8	3.0
120°-130°	242.2	3.8
130°-140°	259.1	4.1
140°-150°	242.2	3.8
150°-160°	195.4	3.1
160°-170°	126.0	2.0
170°-180°	43.4	0.7
0°-30°	1441.4	22.7
0°-40°	2313.8	36.5
0°-60°	3949.1	62.2
0°-90°	4929.9	77.7
90°-120°	305.8	4.8
90°-150°	1049.3	16.5
90°-180°	1414.0	22.3
0°-180°	6344.0	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°	1	5	8	10	10	6
95°	19	7	8	10	10	23
105°	103	105	107	110	97	108
115°	192	193	193	194	194	189
125°	270	271	271	272	272	241
135°	335	335	336	337	337	258
145°	386	387	387	388	388	241
155°	424	424	423	424	423	195
165°	447	445	445	448	445	126
175°	457	455	455	458	454	44
180°	457	457	457	457	457	

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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°	1.0	4.8	7.5	9.6	10.3
92.5°	5.1	4.4	7.2	9.2	9.2
95°	18.8	7.2	7.5	9.6	9.9
97.5°	35.9	43.4	7.5	9.2	9.6
100°	56.1	62.2	15.0	9.2	9.6
102.5°	78.6	82.7	86.8	9.9	9.9
105°	102.9	104.9	106.6	109.7	97.4
107.5°	125.1	126.1	128.5	130.2	131.6
110°	147.7	148.7	150.7	151.4	152.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	169.5	171.6	172.3	171.9	173.3
115°	192.1	193.1	192.8	193.5	193.5
117.5°	212.3	213.6	214.6	214.3	214.3
120°	232.8	234.1	233.8	234.5	233.8
122.5°	251.9	252.6	253.3	253.6	252.9
125°	270.0	271.4	270.7	271.7	272.1
127.5°	287.4	287.8	289.5	289.2	288.8
130°	304.2	304.5	305.6	305.9	305.9
132.5°	319.6	320.3	321.6	322.0	321.6
135°	335.0	334.6	336.0	336.7	337.4
137.5°	348.6	348.6	350.3	351.0	350.7
140°	362.0	362.6	363.3	364.4	364.7
142.5°	373.9	375.3	375.6	376.3	376.3
145°	386.2	387.3	387.3	387.6	388.3
147.5°	395.8	397.8	397.5	397.8	398.2
150°	406.4	407.8	407.4	407.4	407.8
152.5°	415.3	416.3	415.6	416.3	416.0
155°	423.5	423.8	422.8	424.2	423.1
157.5°	430.7	430.7	429.3	431.0	429.3
160°	436.8	435.8	435.4	437.5	435.4
162.5°	442.3	440.9	440.6	442.6	440.2
165°	446.7	445.0	445.0	447.8	444.7
167.5°	450.5	448.8	448.4	451.5	448.1
170°	453.6	451.5	451.9	454.6	451.2
172.5°	455.6	453.6	453.9	456.6	452.9
175°	457.0	454.9	455.3	458.3	454.2
177.5°	458.0	455.6	456.3	459.0	454.9
180°	457.0	457.0	457.0	457.0	457.0

(END OF REPORT)