Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1000825

Luminaire Tested: SA4XXDIP-B1195D1035UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1000825
	REPORT IS A COMBINATION OF REPORTS P995438 AND P1007351
Test Lab:	INNOVATION CENTER
Issue Date:	5/6/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	SA4XXDIP-B1195D1035UB2750-4F0-XX-W2A-F_2700K
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:	9138.0 lumens
Efficiency:	N/A
Efficacy:	101.8 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:	General Diffuse

Input Watts (W):	89.8
Input Voltage (V):	120
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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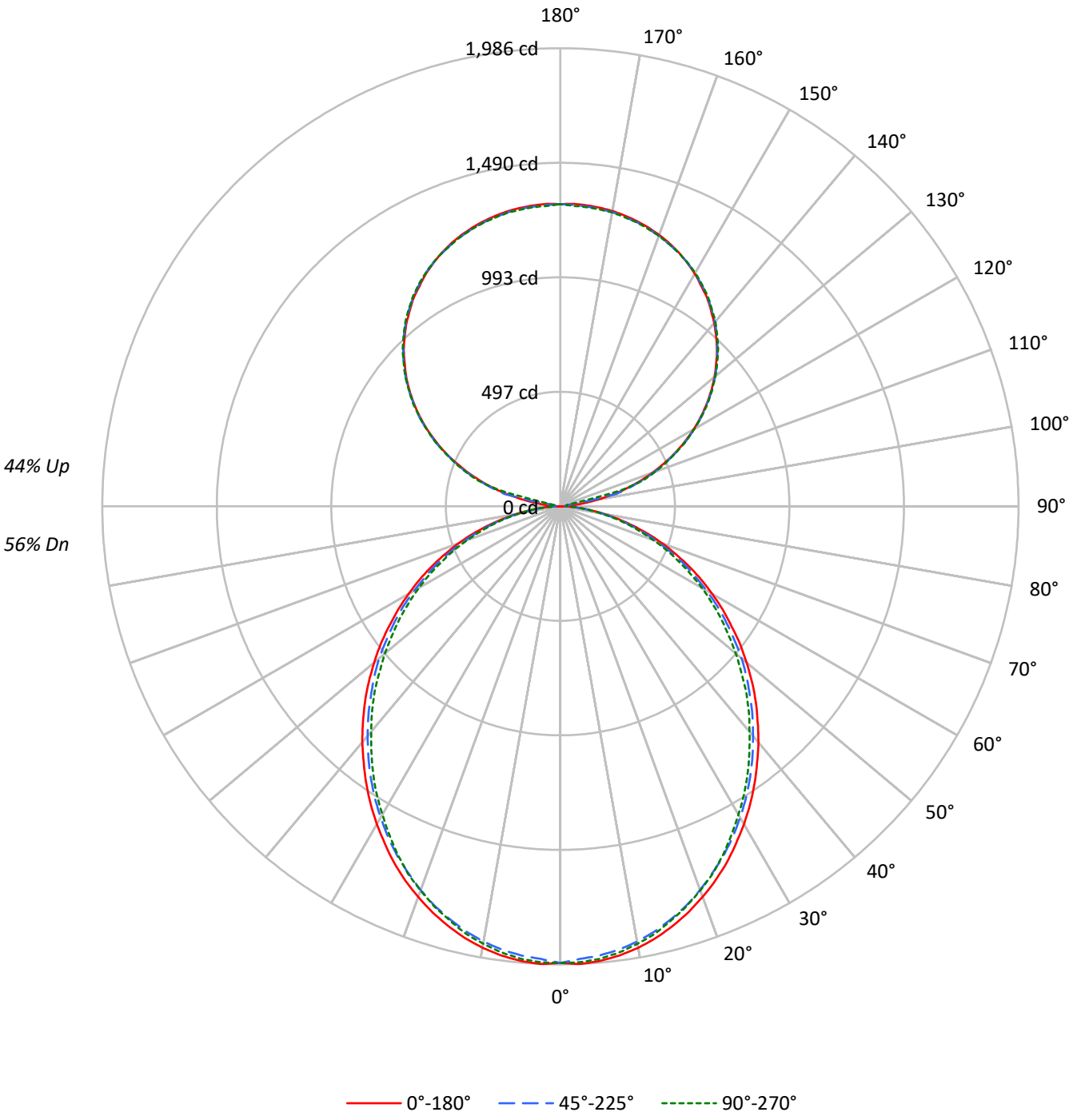
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56
1	99	95	91	87	92	88	85	82	76	73	71	65	63	61	54	53	52	47
2	90	83	76	71	83	77	72	67	66	62	59	57	54	51	48	45	44	39
3	82	73	65	59	76	68	61	56	59	54	49	50	46	43	42	39	37	33
4	75	64	56	50	70	60	53	47	52	47	42	45	40	37	38	35	32	28
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	31	28	25
6	64	51	43	37	59	48	41	35	42	36	32	36	32	28	31	27	25	22
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16146	16146	16146
5°	16159	15681	15700
10°	16022	15246	15139
15°	15792	14729	14506
20°	15499	14169	13850
25°	15168	13577	13145
30°	14770	12938	12371
35°	14357	12282	11622
40°	13928	11578	10826
45°	13476	10871	10081
50°	12977	10186	9257
55°	12435	9386	8438
60°	11879	8510	7585
65°	11244	7605	6624
70°	10512	6515	5593
75°	9418	5252	4480
80°	8024	3797	3151
85°	6236	2114	1696

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 13476 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	2.0
10°-20°	525.8	5.8
20°-30°	773.8	8.5
30°-40°	899.5	9.8
40°-50°	899.4	9.8
50°-60°	786.6	8.6
60°-70°	584.0	6.4
70°-80°	331.4	3.6
80°-90°	97.6	1.1
90°-100°	43.5	0.5
100°-110°	286.4	3.1
110°-120°	546.8	6.0
120°-130°	694.2	7.6
130°-140°	742.6	8.1
140°-150°	694.4	7.6
150°-160°	560.0	6.1
160°-170°	361.1	4.0
170°-180°	124.5	1.4
0°-30°	1486.2	16.3
0°-40°	2385.7	26.1
0°-60°	4071.7	44.6
0°-90°	5084.7	55.6
90°-120°	876.6	9.6
90°-150°	3007.8	32.9
90°-180°	4053.0	44.4
0°-180°	9138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1980	1980	1980	1980	1980	
5°	1978	1972	1955	1972	1969	188
15°	1883	1877	1853	1863	1858	531
25°	1706	1694	1672	1674	1667	785
35°	1468	1456	1434	1423	1415	918
45°	1198	1187	1161	1144	1139	923
55°	906	901	879	860	850	811
65°	614	606	590	574	566	608
75°	327	319	311	305	303	347
85°	86	86	82	82	81	92
90°	3	14	22	27	29	8
95°	54	21	22	27	28	66
105°	295	301	306	314	279	309
115°	551	554	553	554	554	542
125°	774	778	776	779	780	691
135°	960	959	963	965	967	740
145°	1107	1110	1110	1111	1113	692
155°	1214	1215	1212	1216	1213	560
165°	1280	1276	1276	1283	1275	362
175°	1310	1304	1305	1314	1302	125
180°	1310	1310	1310	1310	1310	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1980.0*	1980.0	1980.0	1980.0	1980.0
2.5°	*1986.3*	*1981.6*	*1964.1*	*1980.0*	*1978.4*
5°	*1978.4*	1972.0	1954.6	1972.0	1968.9
7.5°	*1964.1*	1957.8	1938.7	1953.0	1951.4
10°	*1943.5*	1937.1	1916.5	1929.2	1926.0
12.5°	*1916.5*	1910.2	1888.0	1902.2	1897.5
15°	*1883.2*	1876.9	1853.1	1862.6	1857.8
17.5°	*1845.1*	1837.2	1815.0	1821.3	1818.2
20°	*1802.3*	1794.4	1770.6	1775.3	1772.1
22.5°	*1756.3*	1745.2	1721.4	1730.9	1724.5
25°	*1705.5*	1694.4	1672.2	1673.8	1667.4
27.5°	*1648.4*	1637.3	1616.7	1613.5	1605.6
30°	*1591.3*	1578.6	1558.0	1551.6	1543.7
32.5°	*1531.0*	1519.9	1497.7	1489.7	1481.8
35°	*1467.5*	1456.4	1434.2	1423.1	1415.2
37.5°	*1400.9*	1391.4	1367.6	1356.5	1345.4
40°	*1335.9*	1323.2	1299.4	1283.5	1275.6
42.5°	*1266.0*	1259.7	1232.7	1213.7	1208.9
45°	*1197.8*	1186.7	1161.3	1143.9	1139.1
47.5°	*1126.4*	1118.5	1094.7	1075.7	1063.0
50°	*1053.4*	1047.1	1024.9	1002.7	993.2
52.5°	*982.1*	974.1	950.3	931.3	918.6
55°	*905.9*	901.1	878.9	859.9	850.4
57.5°	*834.5*	829.8	807.5	788.5	779.0
60°	*759.9*	752.0	731.4	717.1	709.2
62.5°	*687.0*	680.6	658.4	645.7	637.8
65°	*614.0*	606.1	590.2	574.3	566.4
67.5°	*539.4*	533.1	517.2	501.3	499.8
70°	*471.2*	460.1	447.4	434.7	429.9
72.5°	*398.2*	387.1	377.6	368.1	363.3
75°	*326.8*	318.9	311.0	304.6	303.0
77.5°	*257.0*	253.8	245.9	244.3	239.6
80°	*195.1*	190.4	187.2	184.0	182.4
82.5°	*134.9*	133.3	133.3	131.7	130.1
85°	*85.7*	85.7	82.5	82.5	80.9
87.5°	*41.2*	39.7	38.1	38.1	38.1
90°	*2.9*	13.7	21.6	27.4	29.4
92.5°	*14.7*	12.7	20.6	26.5	26.5
95°	*53.9*	20.6	21.6	27.4	28.4
97.5°	*102.9*	124.4	21.6	26.5	27.4
100°	*160.7*	178.3	43.1	26.5	27.4
102.5°	*225.3*	237.1	248.9	28.4	28.4
105°	*294.9*	300.8	305.7	314.5	279.2
107.5°	*358.6*	361.5	368.4	373.3	377.2
110°	*423.2*	426.2	432.1	434.0	437.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*485.9*	491.8	493.8	492.8	496.7
115°	*550.6*	553.5	552.6	554.5	554.5
117.5°	*608.4*	612.3	615.3	614.3	614.3
120°	*667.2*	671.1	670.1	672.1	670.1
122.5°	*722.1*	724.0	726.0	727.0	725.0
125°	*774.0*	777.9	775.9	778.9	779.9
127.5°	*824.0*	824.9	829.8	828.9	827.9
130°	*872.0*	872.9	875.9	876.9	876.9
132.5°	*916.0*	918.0	921.9	922.9	921.9
135°	*960.1*	959.2	963.1	965.0	967.0
137.5°	*999.3*	999.3	1004.2	1006.2	1005.2
140°	*1037.5*	1039.5	1041.5	1044.4	1045.4
142.5°	*1071.8*	1075.7	1076.7	1078.7	1078.7
145°	*1107.1*	1110.0	1110.0	1111.0	1113.0
147.5°	*1134.5*	1140.4	1139.4	1140.4	1141.4
150°	*1164.9*	1168.8	1167.8	1167.8	1168.8
152.5°	*1190.4*	1193.3	1191.4	1193.3	1192.3
155°	*1213.9*	1214.9	1211.9	1215.8	1212.9
157.5°	*1234.5*	1234.5	1230.5	1235.4	1230.5
160°	*1252.1*	1249.2	1248.2	1254.1	1248.2
162.5°	*1267.8*	1263.9	1262.9	1268.8	1261.9
165°	*1280.5*	1275.6	1275.6	1283.4	1274.6
167.5°	*1291.3*	1286.4	1285.4	1294.2	1284.4
170°	*1300.1*	1294.2	1295.2	1303.0	1293.2
172.5°	*1306.0*	1300.1	1301.1	1308.9	1298.1
175°	*1309.9*	1304.0	1305.0	1313.8	1302.1
177.5°	*1312.8*	1306.0	1307.9	1315.8	1304.0
180°	*1309.9*	1309.9	1309.9	1309.9	1309.9

(END OF REPORT)