

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: P1000827

Luminaire Tested: SA4XXDIP-B1195D1035UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000827
REPORT IS A COMBINATION OF REPORTS P995440 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D1035UB2750-4F0-XX-W2A-F_3500K
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

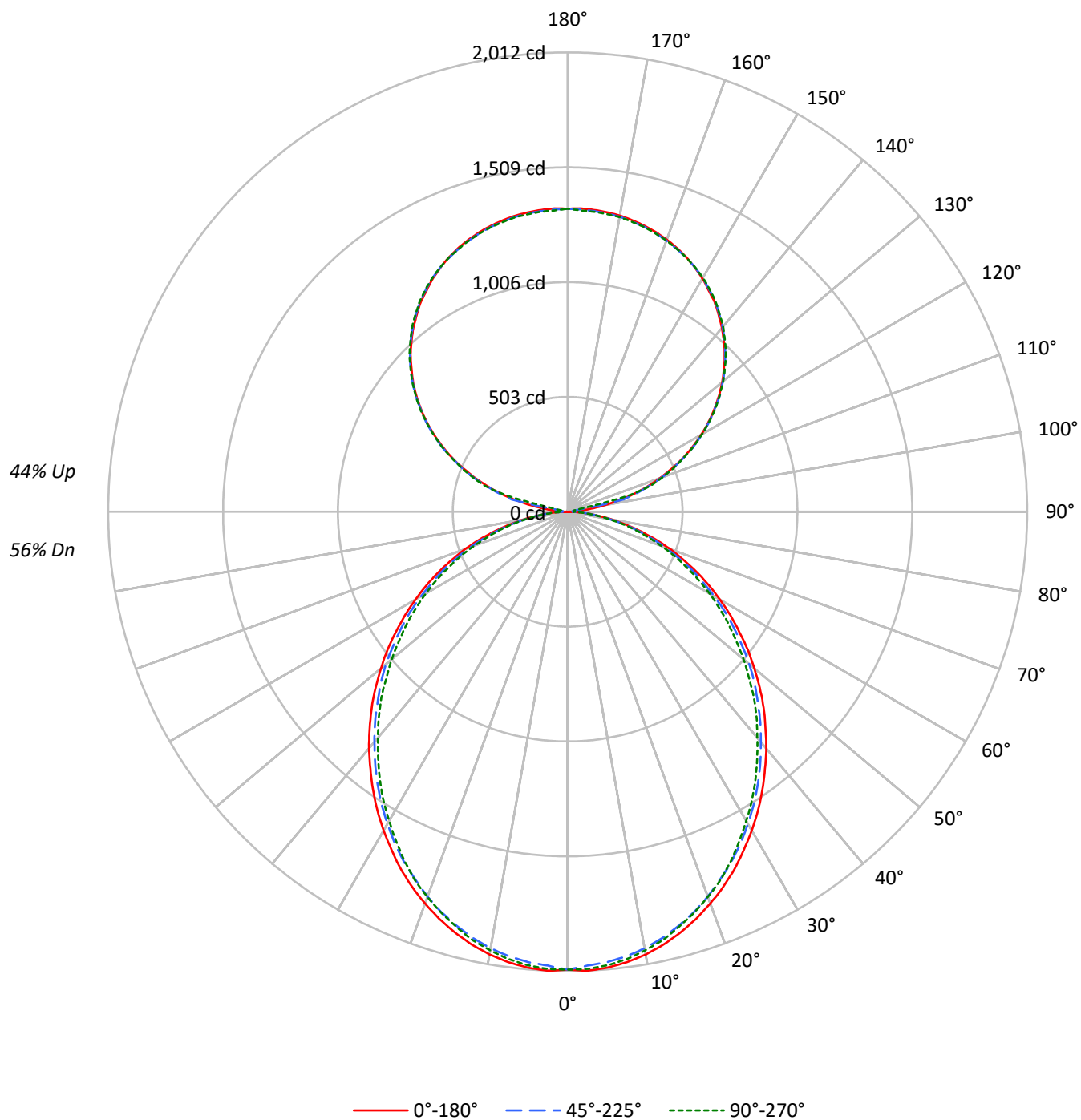
Lumens per Lamp: N/A
Luminaire Lumens: 9257.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
Input Voltage (V):
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	95	91	87	92	88	85	82	76	73	71	65	63	61	54	53	52
2	90	83	76	71	83	77	72	67	66	62	59	57	54	51	48	45	44
3	82	73	65	59	76	68	61	56	59	54	49	50	46	43	42	39	37
4	75	64	56	50	70	60	53	47	52	47	42	45	40	37	38	35	32
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	31	28
6	64	51	43	37	59	48	41	35	42	36	32	36	32	28	31	27	25
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16355	16355	16355
5°	16369	15885	15904
10°	16230	15444	15336
15°	15998	14919	14694
20°	15700	14353	14031
25°	15366	13753	13316
30°	14962	13105	12531
35°	14544	12442	11773
40°	14109	11728	10966
45°	13652	11012	10212
50°	13146	10318	9377
55°	12597	9508	8547
60°	12034	8620	7684
65°	11391	7704	6709
70°	10648	6599	5666
75°	9542	5320	4539
80°	8131	3845	3192
85°	6316	2142	1719

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13652 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	2.0
10°-20°	532.6	5.8
20°-30°	783.8	8.5
30°-40°	911.2	9.8
40°-50°	911.1	9.8
50°-60°	796.9	8.6
60°-70°	591.6	6.4
70°-80°	335.7	3.6
80°-90°	98.9	1.1
90°-100°	44.0	0.5
100°-110°	290.1	3.1
110°-120°	553.9	6.0
120°-130°	703.2	7.6
130°-140°	752.3	8.1
140°-150°	703.4	7.6
150°-160°	567.3	6.1
160°-170°	365.8	4.0
170°-180°	126.1	1.4
0°-30°	1505.5	16.3
0°-40°	2416.7	26.1
0°-60°	4124.6	44.6
0°-90°	5150.8	55.6
90°-120°	888.1	9.6
90°-150°	3047.1	32.9
90°-180°	4106.0	44.4
0°-180°	9257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2004	1998	1980	1998	1994	190
15°	1908	1901	1877	1887	1882	538
25°	1728	1716	1694	1696	1689	795
35°	1487	1475	1453	1442	1434	930
45°	1213	1202	1176	1159	1154	935
55°	918	913	890	871	861	822
65°	622	614	598	582	574	616
75°	331	323	315	309	307	351
85°	87	87	84	84	82	93
90°	3	14	22	28	30	9
95°	55	21	22	28	29	67
105°	299	305	310	319	283	313
115°	558	561	560	562	562	549
125°	784	788	786	789	790	700
135°	973	972	976	978	980	750
145°	1122	1124	1124	1126	1128	701
155°	1230	1231	1228	1232	1229	567
165°	1297	1292	1292	1300	1291	367
175°	1327	1321	1322	1331	1319	126
180°	1327	1327	1327	1327	1327	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2005.7	2005.7	2005.7	2005.7	2005.7
2.5°	2012.1	2007.3	1989.6	2005.7	2004.1
5°	2004.1	1997.7	1980.0	1997.7	1994.4
7.5°	1989.6	1983.2	1963.9	1978.4	1976.8
10°	1968.7	1962.3	1941.4	1954.3	1951.1
12.5°	1941.4	1935.0	1912.5	1926.9	1922.1
15°	1907.7	1901.2	1877.1	1886.8	1881.9
17.5°	1869.1	1861.1	1838.6	1845.0	1841.8
20°	1825.7	1817.7	1793.6	1798.4	1795.2
22.5°	1779.1	1767.8	1743.7	1753.4	1746.9
25°	1727.7	1716.4	1693.9	1695.5	1689.1
27.5°	1669.8	1658.6	1637.7	1634.4	1626.4
30°	1611.9	1599.1	1578.2	1571.8	1563.7
32.5°	1550.9	1539.6	1517.1	1509.1	1501.1
35°	1486.6	1475.3	1452.8	1441.6	1433.6
37.5°	1419.1	1409.4	1385.3	1374.1	1362.8
40°	1353.2	1340.3	1316.2	1300.2	1292.1
42.5°	1282.5	1276.1	1248.7	1229.5	1224.6
45°	1213.4	1202.1	1176.4	1158.7	1153.9
47.5°	1141.1	1133.0	1108.9	1089.6	1076.8
50°	1067.1	1060.7	1038.2	1015.7	1006.1
52.5°	994.8	986.8	962.7	943.4	930.5
55°	917.7	912.8	890.3	871.1	861.4
57.5°	845.3	840.5	818.0	798.7	789.1
60°	769.8	761.8	740.9	726.4	718.4
62.5°	695.9	689.5	667.0	654.1	646.1
65°	622.0	613.9	597.9	581.8	573.7
67.5°	546.4	540.0	523.9	507.9	506.2
70°	477.3	466.1	453.2	440.4	435.5
72.5°	403.4	392.1	382.5	372.9	368.0
75°	331.1	323.0	315.0	308.6	307.0
77.5°	260.4	257.1	249.1	247.5	242.7
80°	197.7	192.9	189.6	186.4	184.8
82.5°	136.6	135.0	135.0	133.4	131.8
85°	86.8	86.8	83.6	83.6	82.0
87.5°	41.8	40.2	38.6	38.6	38.6
90°	3.0	13.9	21.8	27.8	29.8
92.5°	14.9	12.9	20.8	26.8	26.8
95°	54.6	20.8	21.8	27.8	28.8
97.5°	104.2	126.1	21.8	26.8	27.8
100°	162.8	180.6	43.7	26.8	27.8
102.5°	228.3	240.2	252.1	28.8	28.8
105°	298.8	304.7	309.7	318.6	282.9
107.5°	363.3	366.2	373.2	378.2	382.1
110°	428.8	431.8	437.7	439.7	442.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	492.3	498.3	500.2	499.2	503.2
115°	557.8	560.8	559.8	561.8	561.8
117.5°	616.4	620.3	623.3	622.3	622.3
120°	675.9	679.9	678.9	680.9	678.9
122.5°	731.5	733.5	735.5	736.5	734.5
125°	784.1	788.1	786.1	789.1	790.1
127.5°	834.7	835.7	840.7	839.7	838.7
130°	883.4	884.3	887.3	888.3	888.3
132.5°	928.0	930.0	934.0	935.0	934.0
135°	972.7	971.7	975.7	977.6	979.6
137.5°	1012.4	1012.4	1017.3	1019.3	1018.3
140°	1051.1	1053.1	1055.1	1058.0	1059.0
142.5°	1085.8	1089.8	1090.8	1092.8	1092.8
145°	1121.6	1124.5	1124.5	1125.5	1127.5
147.5°	1149.4	1155.3	1154.3	1155.3	1156.3
150°	1180.1	1184.1	1183.1	1183.1	1184.1
152.5°	1205.9	1208.9	1206.9	1208.9	1207.9
155°	1229.7	1230.7	1227.8	1231.7	1228.8
157.5°	1250.6	1250.6	1246.6	1251.6	1246.6
160°	1268.5	1265.5	1264.5	1270.4	1264.5
162.5°	1284.3	1280.4	1279.4	1285.3	1278.4
165°	1297.2	1292.3	1292.3	1300.2	1291.3
167.5°	1308.2	1303.2	1302.2	1311.1	1301.2
170°	1317.1	1311.1	1312.1	1320.1	1310.1
172.5°	1323.0	1317.1	1318.1	1326.0	1315.1
175°	1327.0	1321.1	1322.1	1331.0	1319.1
177.5°	1330.0	1323.0	1325.0	1333.0	1321.1
180°	1327.0	1327.0	1327.0	1327.0	1327.0

(END OF REPORT)