

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: P1032560

Luminaire Tested: S124DIW-B1195D1340UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032560
REPORT IS A COMBINATION OF REPORTS P997033 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B1195D1340UB2750-4F0-XX-W2A-D_2700K
Description: Define 4 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

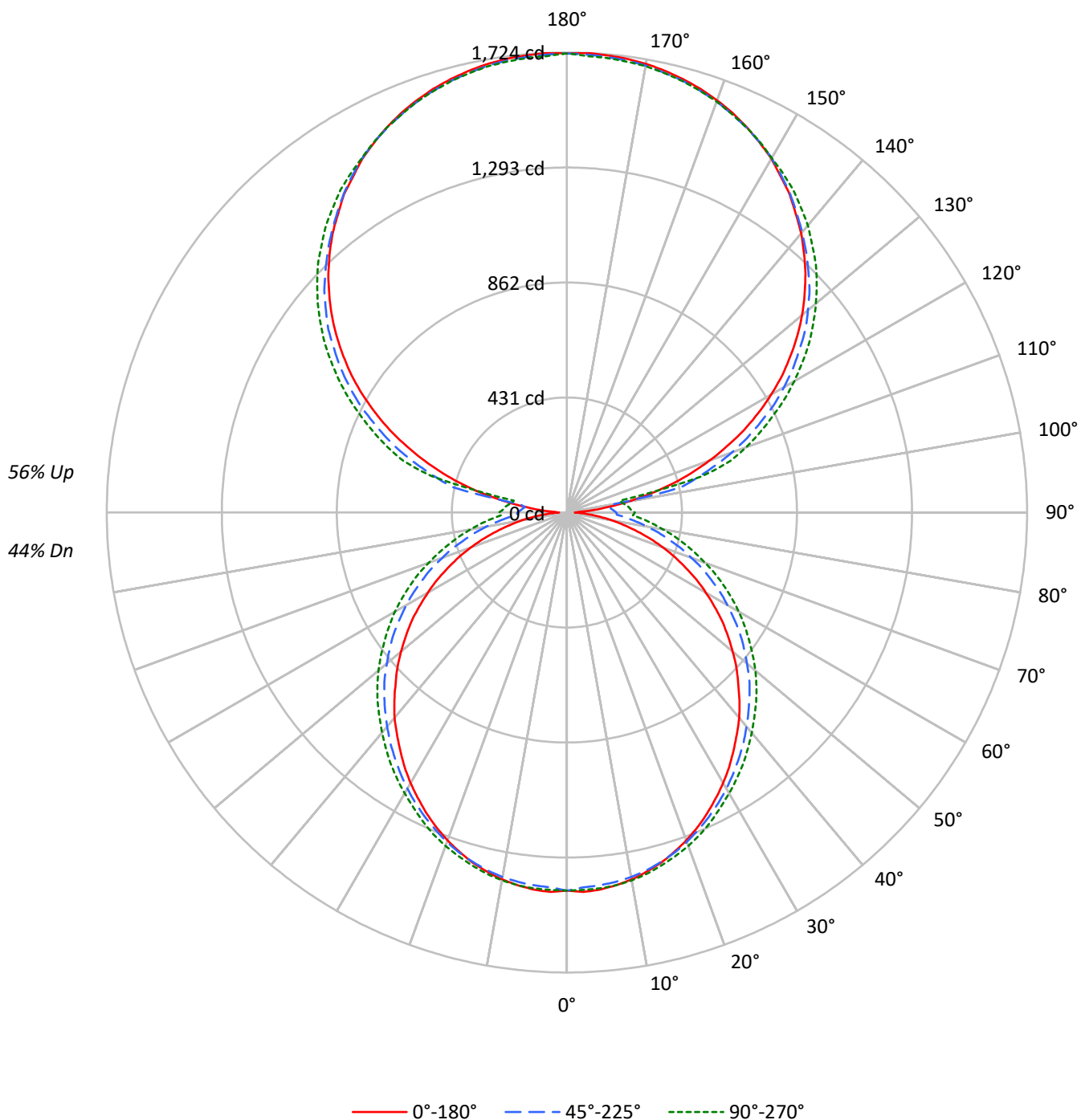
Lumens per Lamp: N/A
Luminaire Lumens: 10157.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 103.4
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: P1032560

CATALOG NUMBER: S124DIW-B1195D1340UB2750-4F0-XX-W2A-D_2700K

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
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80		65	65	65		51
1	96	91	87	83	87	83	80	76	69	66	64		56	54	52		43
2	87	79	72	67	79	72	67	62	60	56	52		48	45	43		38
3	79	69	61	55	72	63	57	51	52	47	43		42	39	36		33
4	72	61	53	46	65	56	49	43	46	41	37		37	33	30		29
5	66	54	46	40	60	50	42	37	41	36	31		33	29	26		26
6	61	48	40	34	55	44	37	32	37	31	27		30	26	23		24
7	56	43	35	30	51	40	33	28	33	28	24		27	23	20		22
8	52	39	31	26	47	36	29	24	30	25	21		25	21	18		20
9	48	36	28	23	44	33	26	22	28	22	19		23	19	16		18
10	45	33	26	21	41	30	24	19	26	20	17		21	17	14		17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11555	11555	11555
5°	11586	11254	11274
10°	11511	11032	11000
15°	11403	10783	10692
20°	11244	10513	10393
25°	11064	10216	10070
30°	10869	9922	9740
35°	10649	9621	9447
40°	10472	9331	9144
45°	10211	9060	8875
50°	9988	8752	8592
55°	9758	8456	8266
60°	9401	8086	7959
65°	9008	7688	7590
70°	8531	7233	7163
75°	7864	6726	6757
80°	7115	6210	6331
85°	6120	5691	5986

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10211 cd/sqm

TEST NUMBER: P1032560

CATALOG NUMBER: S124DIW-B1195D1340UB2750-4F0-XX-W2A-D_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	1.3
10°-20°	384.7	3.8
20°-30°	581.6	5.7
30°-40°	703.7	6.9
40°-50°	743.9	7.3
50°-60°	700.1	6.9
60°-70°	581.0	5.7
70°-80°	407.7	4.0
80°-90°	233.4	2.3
90°-100°	193.9	1.9
100°-110°	477.3	4.7
110°-120°	786.0	7.7
120°-130°	949.8	9.4
130°-140°	991.7	9.8
140°-150°	915.1	9.0
150°-160°	735.3	7.2
160°-170°	474.2	4.7
170°-180°	163.4	1.6
0°-30°	1100.6	10.8
0°-40°	1804.2	17.8
0°-60°	3248.2	32.0
0°-90°	4470.2	44.0
90°-120°	1457.3	14.3
90°-150°	4313.8	42.5
90°-180°	5687.0	56.0
0°-180°	10157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1418	1414	1403	1415	1414	135
15°	1360	1361	1357	1371	1369	383
25°	1244	1254	1258	1276	1277	573
35°	1088	1108	1123	1146	1150	682
45°	908	938	968	995	1003	701
55°	711	744	792	824	833	633
65°	492	543	597	636	649	488
75°	273	332	398	443	457	290
85°	84	151	222	270	286	88
90°	29	107	185	239	254	21
95°	91	100	166	217	232	104
105°	402	441	506	557	524	421
115°	732	751	800	838	849	722
125°	1023	1026	1063	1097	1108	914
135°	1264	1263	1279	1307	1319	974
145°	1455	1458	1458	1468	1477	910
155°	1594	1595	1591	1596	1593	735
165°	1682	1675	1675	1685	1674	475
175°	1720	1712	1714	1725	1710	164
180°	1720	1720	1720	1720	1720	

TEST NUMBER: P1032560

CATALOG NUMBER: S124DIW-B1195D1340UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.0	1417.0	1417.0	1417.0	1417.0
2.5°	1423.3	1418.5	1405.9	1417.0	1415.4
5°	1418.5	1413.8	1402.7	1415.4	1413.8
7.5°	1409.0	1405.9	1396.3	1410.6	1409.0
10°	1396.3	1394.7	1386.8	1401.1	1399.5
12.5°	1378.9	1378.9	1374.1	1386.8	1386.8
15°	1359.8	1361.4	1356.7	1370.9	1369.4
17.5°	1334.5	1339.2	1337.6	1351.9	1350.3
20°	1307.5	1312.2	1313.8	1329.7	1329.7
22.5°	1277.3	1283.7	1286.8	1302.7	1305.9
25°	1244.0	1253.5	1258.3	1275.7	1277.3
27.5°	1207.5	1221.8	1228.1	1244.0	1245.6
30°	1171.0	1183.7	1194.8	1212.3	1215.4
32.5°	1131.3	1147.2	1159.9	1180.5	1183.7
35°	1088.5	1107.5	1123.4	1145.6	1150.4
37.5°	1045.7	1067.9	1086.9	1109.1	1113.9
40°	1004.4	1025.0	1047.2	1071.1	1077.4
42.5°	956.8	980.6	1007.6	1034.6	1039.3
45°	907.6	937.8	967.9	994.9	1002.8
47.5°	861.6	891.7	926.7	953.6	963.2
50°	810.8	845.7	880.6	912.4	921.9
52.5°	760.0	795.0	836.2	867.9	877.5
55°	710.9	744.2	791.8	823.5	833.0
57.5°	655.3	696.6	742.6	780.7	788.6
60°	601.4	642.6	695.0	731.5	744.2
62.5°	549.0	595.0	647.4	683.9	696.6
65°	491.9	542.7	596.6	636.3	649.0
67.5°	437.9	491.9	549.0	588.7	601.4
70°	382.4	436.4	496.7	539.5	550.6
72.5°	328.5	384.0	449.0	490.3	503.0
75°	272.9	331.6	398.3	442.7	457.0
77.5°	220.6	282.4	352.3	396.7	412.6
80°	173.0	236.4	306.2	353.8	366.5
82.5°	125.4	192.0	261.8	311.0	325.3
85°	84.1	150.7	222.1	269.7	285.6
87.5°	52.4	117.4	187.2	233.3	247.5
90°	29.3	106.9	185.4	239.1	254.4
92.5°	43.1	96.0	174.6	226.7	239.4
95°	91.4	100.0	166.3	216.9	232.5
97.5°	154.1	228.5	158.4	206.1	221.6
100°	228.5	292.8	177.2	198.1	210.5
102.5°	313.4	363.7	439.5	191.2	203.9
105°	401.5	441.0	506.1	557.4	523.8
107.5°	485.2	516.0	580.5	626.7	642.9
110°	568.5	594.5	657.7	696.8	713.4

TEST NUMBER: P1032560

CATALOG NUMBER: S124DIW-B1195D1340UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	649.2	675.9	730.9	764.5	782.4
115°	732.5	750.7	800.2	837.7	848.8
117.5°	808.4	823.1	874.5	906.6	919.3
120°	884.0	894.0	938.7	972.9	983.1
122.5°	956.1	958.6	1004.1	1037.1	1045.6
125°	1022.6	1026.3	1063.3	1097.4	1108.2
127.5°	1088.2	1088.0	1126.2	1153.5	1163.3
130°	1149.8	1149.5	1178.7	1208.5	1218.0
132.5°	1207.7	1208.7	1232.8	1261.1	1269.3
135°	1264.0	1262.7	1278.9	1306.9	1319.0
137.5°	1315.4	1313.8	1326.6	1352.9	1359.7
140°	1365.6	1366.6	1370.8	1395.2	1404.4
142.5°	1409.0	1414.2	1413.9	1433.9	1440.2
145°	1455.3	1457.6	1457.6	1468.4	1477.4
147.5°	1491.4	1497.5	1496.2	1499.1	1506.7
150°	1531.2	1534.8	1533.5	1533.5	1534.8
152.5°	1563.1	1567.0	1564.4	1567.0	1565.7
155°	1594.0	1595.3	1591.4	1596.5	1592.7
157.5°	1621.0	1621.0	1615.8	1622.3	1615.8
160°	1644.1	1640.3	1639.0	1646.7	1639.0
162.5°	1664.7	1659.6	1658.3	1666.0	1657.0
165°	1681.5	1675.0	1675.0	1685.3	1673.7
167.5°	1695.6	1689.2	1687.9	1699.5	1686.6
170°	1707.2	1699.5	1700.8	1711.0	1698.2
172.5°	1714.9	1707.2	1708.5	1718.8	1704.6
175°	1720.1	1712.3	1713.6	1725.2	1709.8
177.5°	1723.9	1714.9	1717.5	1727.8	1712.3
180°	1720.1	1720.1	1720.1	1720.1	1720.1

(END OF REPORT)