

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: P1032547

Luminaire Tested: S124DIW-B1195D1050UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032547
REPORT IS A COMBINATION OF REPORTS P996969 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B1195D1050UB2750-4F0-XX-W2A-D_3500K
Description: Define 4 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

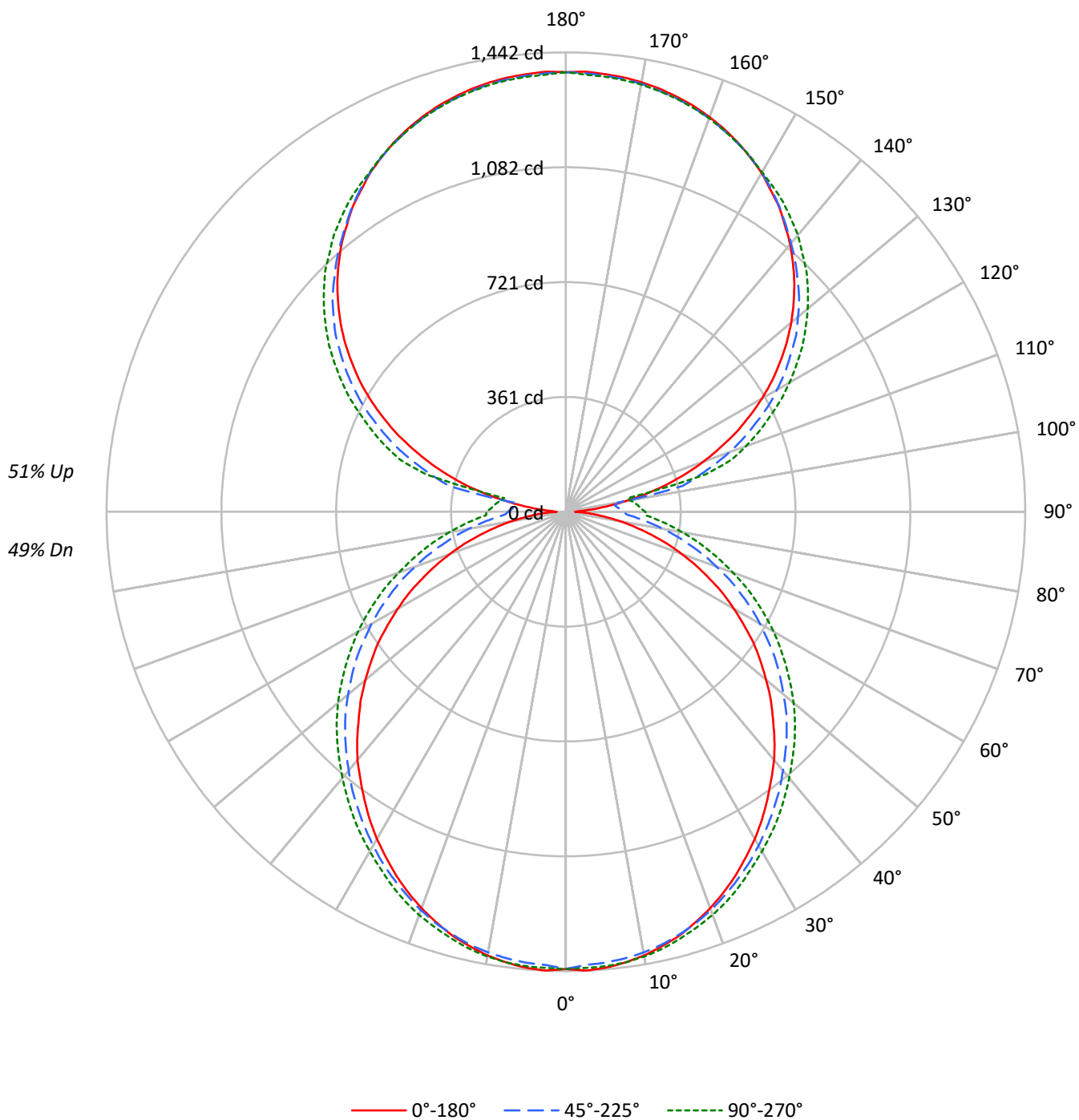
Lumens per Lamp: N/A
Luminaire Lumens: 9165.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
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	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56			49
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	48	46	45			40
2	88	80	73	68	80	73	68	63	62	58	54	51	48	45	41	39	37			32
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	36	33	31			27
4	73	61	53	47	67	57	49	44	48	42	38	40	35	32	32	29	26			23
5	67	55	46	40	61	50	43	37	43	37	32	36	31	28	29	25	23			20
6	61	49	40	34	56	45	38	32	38	32	28	32	27	24	26	23	20			17
7	57	44	36	30	52	41	33	28	35	29	25	29	25	21	24	20	18			15
8	52	40	32	26	48	37	30	25	32	26	22	27	22	19	22	18	16			13
9	49	36	29	23	45	34	27	22	29	23	19	24	20	17	20	17	14			12
10	46	33	26	21	42	31	24	20	27	21	17	22	18	15	19	15	13			11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11702	11702	11702
5°	11735	11398	11418
10°	11659	11173	11142
15°	11550	10922	10829
20°	11388	10649	10526
25°	11206	10347	10199
30°	11008	10049	9865
35°	10786	9744	9569
40°	10607	9452	9261
45°	10343	9176	8989
50°	10116	8864	8702
55°	9883	8564	8372
60°	9521	8190	8061
65°	9124	7787	7687
70°	8641	7325	7256
75°	7965	6812	6843
80°	7206	6291	6412
85°	6200	5766	6064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10343 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.5
10°-20°	389.6	4.3
20°-30°	589.1	6.4
30°-40°	712.7	7.8
40°-50°	753.4	8.2
50°-60°	709.1	7.7
60°-70°	588.4	6.4
70°-80°	412.9	4.5
80°-90°	235.6	2.6
90°-100°	184.4	2.0
100°-110°	404.2	4.4
110°-120°	644.8	7.0
120°-130°	769.9	8.4
130°-140°	798.9	8.7
140°-150°	734.7	8.0
150°-160°	589.8	6.4
160°-170°	380.4	4.2
170°-180°	131.1	1.4
0°-30°	1114.7	12.2
0°-40°	1827.4	19.9
0°-60°	3289.9	35.9
0°-90°	4526.9	49.4
90°-120°	1233.4	13.5
90°-150°	3536.9	38.6
90°-180°	4638.0	50.6
0°-180°	9165.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1437	1432	1421	1434	1432	136
15°	1377	1379	1374	1388	1387	388
25°	1260	1270	1274	1292	1294	580
35°	1102	1122	1138	1160	1165	690
45°	919	950	980	1008	1016	710
55°	720	754	802	834	844	642
65°	498	550	604	644	657	494
75°	276	336	403	448	463	294
85°	85	153	225	273	289	89
90°	29	104	182	235	250	21
95°	78	96	162	212	228	87
105°	325	363	428	477	453	341
115°	590	607	658	695	706	581
125°	822	824	862	896	907	734
135°	1014	1013	1029	1057	1068	782
145°	1168	1169	1169	1180	1188	730
155°	1278	1280	1276	1281	1278	590
165°	1349	1344	1344	1352	1342	381
175°	1380	1374	1374	1384	1371	131
180°	1380	1380	1380	1380	1380	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1441.6	1436.8	1423.9	1435.1	1433.5
5°	1436.8	1431.9	1420.7	1433.5	1431.9
7.5°	1427.1	1423.9	1414.3	1428.7	1427.1
10°	1414.3	1412.6	1404.6	1419.1	1417.5
12.5°	1396.6	1396.6	1391.8	1404.6	1404.6
15°	1377.3	1378.9	1374.1	1388.5	1386.9
17.5°	1351.6	1356.4	1354.8	1369.3	1367.6
20°	1324.3	1329.1	1330.7	1346.8	1346.8
22.5°	1293.7	1300.1	1303.4	1319.4	1322.6
25°	1260.0	1269.6	1274.4	1292.1	1293.7
27.5°	1223.0	1237.5	1243.9	1260.0	1261.6
30°	1186.0	1198.9	1210.2	1227.8	1231.0
32.5°	1145.9	1161.9	1174.8	1195.7	1198.9
35°	1102.5	1121.8	1137.8	1160.3	1165.2
37.5°	1059.1	1081.6	1100.9	1123.4	1128.2
40°	1017.3	1038.2	1060.7	1084.8	1091.2
42.5°	969.1	993.2	1020.5	1047.8	1052.7
45°	919.3	949.8	980.3	1007.7	1015.7
47.5°	872.7	903.2	938.5	965.9	975.5
50°	821.2	856.6	891.9	924.1	933.7
52.5°	769.8	805.2	846.9	879.1	888.7
55°	720.0	753.7	801.9	834.1	843.7
57.5°	663.7	705.5	752.1	790.7	798.7
60°	609.1	650.9	703.9	740.9	753.7
62.5°	556.1	602.7	655.7	692.7	705.5
65°	498.2	549.6	604.3	644.4	657.3
67.5°	443.6	498.2	556.1	596.2	609.1
70°	387.3	442.0	503.0	546.4	557.7
72.5°	332.7	388.9	454.8	496.6	509.5
75°	276.4	335.9	403.4	448.4	462.8
77.5°	223.4	286.1	356.8	401.8	417.8
80°	175.2	239.5	310.2	358.4	371.2
82.5°	127.0	194.5	265.2	315.0	329.5
85°	85.2	152.7	225.0	273.2	289.3
87.5°	53.0	118.9	189.6	236.2	250.7
90°	28.8	104.4	181.8	234.6	249.6
92.5°	39.6	93.8	171.2	222.4	235.2
95°	77.7	95.6	162.5	212.1	227.6
97.5°	127.7	197.0	154.5	201.5	216.9
100°	186.9	247.3	167.5	193.4	205.7
102.5°	255.0	302.7	376.2	185.8	198.6
105°	325.1	363.4	428.1	477.4	453.2
107.5°	392.2	422.6	486.0	531.4	546.8
110°	458.7	484.3	546.7	585.7	601.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	523.0	548.5	603.7	637.9	655.0
115°	589.5	607.1	657.5	695.0	706.2
117.5°	650.4	664.2	715.5	748.2	761.1
120°	710.7	719.8	765.3	799.5	810.3
122.5°	768.5	770.6	816.0	849.3	858.4
125°	821.6	824.1	862.3	895.9	906.6
127.5°	874.2	873.7	911.0	938.9	949.1
130°	923.2	922.6	951.4	981.5	991.1
132.5°	969.6	970.1	993.5	1021.9	1030.5
135°	1014.5	1013.4	1028.9	1056.6	1068.3
137.5°	1055.7	1054.1	1065.7	1091.9	1098.9
140°	1096.0	1096.5	1100.1	1124.1	1133.1
142.5°	1130.5	1134.6	1134.1	1153.8	1160.2
145°	1167.7	1169.1	1169.1	1179.8	1188.3
147.5°	1196.5	1201.1	1200.1	1202.7	1210.2
150°	1228.5	1231.1	1230.0	1230.0	1231.1
152.5°	1253.8	1256.9	1254.8	1256.9	1255.8
155°	1278.5	1279.6	1276.5	1280.6	1277.5
157.5°	1300.2	1300.2	1296.1	1301.2	1296.1
160°	1318.8	1315.7	1314.6	1320.8	1314.6
162.5°	1335.3	1331.2	1330.1	1336.3	1329.1
165°	1348.7	1343.5	1343.5	1351.8	1342.5
167.5°	1360.1	1354.9	1353.9	1363.1	1352.8
170°	1369.3	1363.1	1364.2	1372.4	1362.1
172.5°	1375.5	1369.3	1370.4	1378.6	1367.3
175°	1379.7	1373.5	1374.5	1383.8	1371.4
177.5°	1382.8	1375.5	1377.6	1385.9	1373.5
180°	1379.7	1379.7	1379.7	1379.7	1379.7

(END OF REPORT)