

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: P1032544

Luminaire Tested: S124DIW-B1195D1050UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032544
REPORT IS A COMBINATION OF REPORTS P996965 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-D1_5000K
Description: Define 4 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

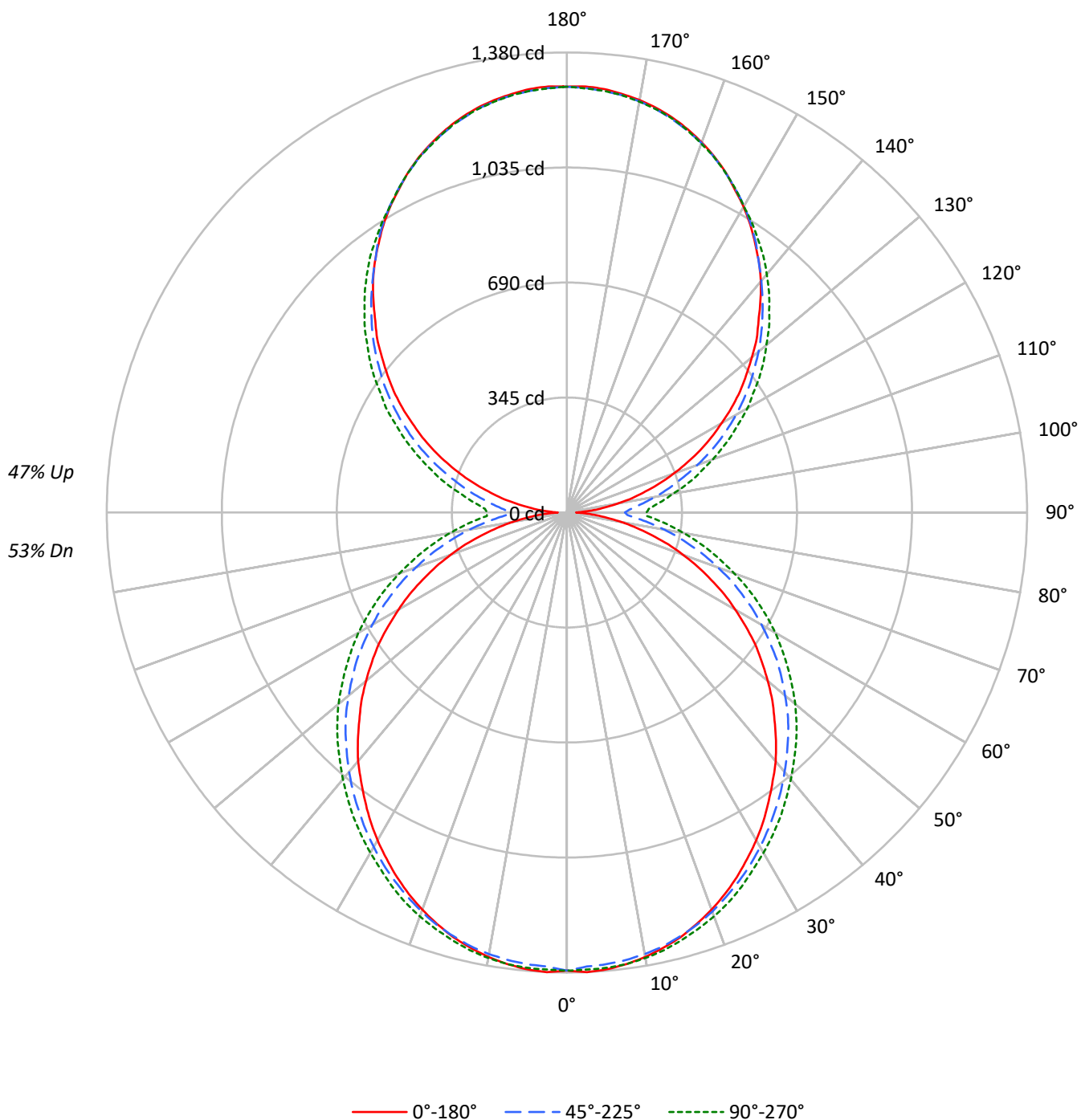
Lumens per Lamp: N/A
Luminaire Lumens: 8232.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1032544

CATALOG NUMBER: S124DIW-B1195D1050UB2750-4F0-XX-W2A-D1_5000K

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				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85		71	71	71		59
1	97	93	88	84	90	86	82	79	73	70	67		61	59	57		50
2	88	80	74	68	81	74	68	64	63	59	55		53	50	47		43
3	80	70	62	56	74	65	58	53	55	50	46		46	42	39		38
4	73	62	53	47	67	57	50	44	49	43	39		41	37	33		34
5	67	55	46	40	62	51	43	38	44	38	33		37	32	29		30
6	62	49	41	35	57	46	38	33	39	33	29		33	28	25		27
7	57	44	36	30	52	41	34	29	35	30	25		30	25	22		25
8	53	40	32	27	49	37	30	25	32	26	22		27	23	19		23
9	49	37	29	24	45	34	27	22	30	24	20		25	21	17		21
10	46	34	26	21	42	31	25	20	27	22	18		23	19	16		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11205	11205	11205
5°	11236	10913	10933
10°	11163	10699	10668
15°	11059	10457	10369
20°	10904	10196	10078
25°	10729	9908	9765
30°	10541	9622	9446
35°	10327	9330	9162
40°	10156	9050	8867
45°	9903	8787	8607
50°	9686	8488	8332
55°	9463	8201	8017
60°	9117	7842	7719
65°	8735	7456	7361
70°	8272	7013	6947
75°	7628	6522	6553
80°	6897	6023	6141
85°	5938	5520	5806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9903 cd/sqm

TEST NUMBER: P1032544

CATALOG NUMBER: S124DIW-B1195D1050UB2750-4F0-XX-W2A-D1_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	1.6
10°-20°	373.1	4.5
20°-30°	564.1	6.9
30°-40°	682.4	8.3
40°-50°	721.4	8.8
50°-60°	678.9	8.2
60°-70°	563.4	6.8
70°-80°	395.4	4.8
80°-90°	225.6	2.7
90°-100°	216.0	2.6
100°-110°	347.7	4.2
110°-120°	489.6	5.9
120°-130°	595.9	7.2
130°-140°	643.6	7.8
140°-150°	620.0	7.5
150°-160°	518.8	6.3
160°-170°	345.2	4.2
170°-180°	120.9	1.5
0°-30°	1067.3	13.0
0°-40°	1749.7	21.3
0°-60°	3150.1	38.3
0°-90°	4334.4	52.7
90°-120°	1053.2	12.8
90°-150°	2912.7	35.4
90°-180°	3898.0	47.4
0°-180°	8232.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1374	1374	1374	1374	1374	
5°	1376	1371	1360	1373	1371	131
15°	1319	1320	1316	1330	1328	372
25°	1206	1216	1220	1237	1239	556
35°	1056	1074	1090	1111	1116	661
45°	880	909	939	965	972	680
55°	689	722	768	799	808	614
65°	477	526	579	617	629	473
75°	265	322	386	429	443	281
85°	82	146	215	262	277	85
90°	28	100	174	225	239	21
95°	79	139	209	253	267	80
105°	244	276	337	378	393	260
115°	440	454	501	534	544	435
125°	634	632	669	697	704	565
135°	812	818	829	852	858	629
145°	984	987	988	996	999	616
155°	1126	1126	1125	1129	1125	518
165°	1226	1223	1221	1227	1223	346
175°	1275	1270	1270	1276	1270	121
180°	1277	1277	1277	1277	1277	

TEST NUMBER: P1032544

CATALOG NUMBER: S124DIW-B1195D1050UB2750-4F0-XX-W2A-D1_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1374.1	1374.1	1374.1	1374.1	1374.1
2.5°	1380.3	1375.7	1363.4	1374.1	1372.6
5°	1375.7	1371.1	1360.3	1372.6	1371.1
7.5°	1366.4	1363.4	1354.1	1368.0	1366.4
10°	1354.1	1352.6	1344.9	1358.8	1357.2
12.5°	1337.2	1337.2	1332.6	1344.9	1344.9
15°	1318.7	1320.3	1315.7	1329.5	1328.0
17.5°	1294.1	1298.7	1297.2	1311.0	1309.5
20°	1268.0	1272.6	1274.1	1289.5	1289.5
22.5°	1238.7	1244.9	1248.0	1263.3	1266.4
25°	1206.4	1215.6	1220.3	1237.2	1238.7
27.5°	1171.0	1184.9	1191.0	1206.4	1207.9
30°	1135.6	1147.9	1158.7	1175.6	1178.7
32.5°	1097.2	1112.5	1124.9	1144.9	1147.9
35°	1055.6	1074.1	1089.5	1111.0	1115.6
37.5°	1014.1	1035.6	1054.1	1075.6	1080.2
40°	974.1	994.1	1015.6	1038.7	1044.8
42.5°	927.9	951.0	977.1	1003.3	1007.9
45°	880.2	909.4	938.7	964.8	972.5
47.5°	835.6	864.8	898.7	924.8	934.0
50°	786.3	820.2	854.0	884.8	894.0
52.5°	737.1	770.9	810.9	841.7	850.9
55°	689.4	721.7	767.9	798.6	807.9
57.5°	635.5	675.5	720.2	757.1	764.8
60°	583.2	623.2	674.0	709.4	721.7
62.5°	532.4	577.0	627.8	663.2	675.5
65°	477.0	526.3	578.6	617.1	629.4
67.5°	424.7	477.0	532.4	570.9	583.2
70°	370.8	423.2	481.6	523.2	534.0
72.5°	318.5	372.4	435.5	475.5	487.8
75°	264.7	321.6	386.2	429.3	443.2
77.5°	213.9	273.9	341.6	384.7	400.1
80°	167.7	229.3	297.0	343.1	355.5
82.5°	121.6	186.2	253.9	301.6	315.5
85°	81.6	146.2	215.4	261.6	277.0
87.5°	50.8	113.9	181.6	226.2	240.1
90°	27.6	100.0	174.0	224.7	238.9
92.5°	48.8	115.4	186.6	232.6	245.9
95°	79.3	139.0	209.0	253.4	267.3
97.5°	113.3	165.8	236.8	280.8	294.6
100°	155.2	199.2	268.1	311.6	322.4
102.5°	200.7	235.5	301.9	344.9	358.2
105°	244.0	275.8	336.7	378.1	393.4
107.5°	292.4	319.6	374.5	416.8	426.6
110°	340.3	363.9	416.7	450.1	465.4

TEST NUMBER: P1032544

CATALOG NUMBER: S124DIW-B1195D1050UB2750-4F0-XX-W2A-D1_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	390.2	408.6	457.4	491.3	503.6
115°	439.9	453.8	501.1	534.0	543.7
117.5°	488.3	497.6	542.8	572.1	581.5
120°	535.3	543.8	585.4	611.3	625.6
122.5°	585.6	586.6	627.1	655.0	660.8
125°	633.5	631.9	669.4	696.7	704.0
127.5°	678.0	679.4	708.2	733.9	743.7
130°	723.8	725.3	749.9	775.6	780.8
132.5°	772.2	772.7	790.1	814.3	822.5
135°	812.2	818.1	828.8	851.6	857.8
137.5°	858.6	860.0	868.2	888.3	897.0
140°	905.1	905.4	907.0	926.1	932.8
142.5°	946.0	947.9	945.4	962.3	968.5
145°	984.5	986.9	987.9	996.1	999.4
147.5°	1024.0	1027.4	1026.5	1027.0	1032.2
150°	1059.6	1062.0	1062.0	1062.0	1061.0
152.5°	1091.7	1093.6	1094.6	1097.6	1094.6
155°	1126.2	1126.2	1125.2	1129.2	1125.2
157.5°	1155.9	1153.9	1153.9	1156.9	1153.9
160°	1181.6	1180.6	1179.6	1182.5	1177.6
162.5°	1205.3	1202.3	1201.3	1207.2	1202.3
165°	1226.0	1223.0	1221.1	1227.0	1223.0
167.5°	1242.8	1238.9	1238.9	1244.8	1238.9
170°	1256.6	1251.7	1252.7	1258.6	1251.7
172.5°	1266.5	1262.6	1262.6	1269.5	1262.6
175°	1275.4	1270.5	1269.5	1276.4	1269.5
177.5°	1279.4	1274.4	1274.4	1281.3	1273.4
180°	1277.4	1277.4	1277.4	1277.4	1277.4

(END OF REPORT)