

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: P1034396

Luminaire Tested: S125DIW-B1270D1050UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034396
REPORT IS A COMBINATION OF REPORTS P1003068 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D1050UB2750-4F0-XX-W2A-D_3000K
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

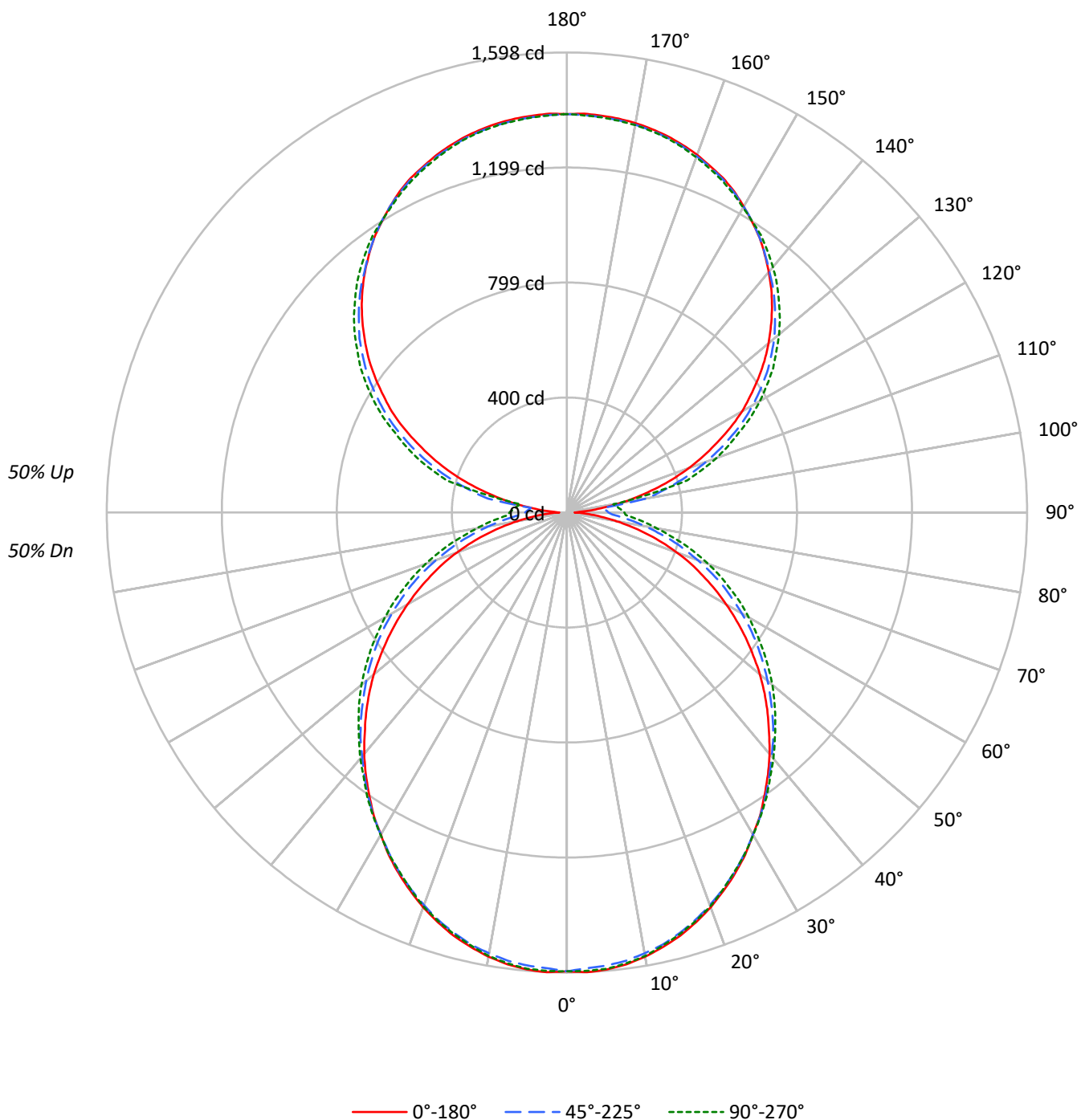
Lumens per Lamp: N/A
Luminaire Lumens: 9190.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	107	107	107	107	99	99	99	99	84	84	84		70	70	70		57
1	97	92	88	85	89	85	82	79	72	70	67		60	58	56		49
2	88	80	74	68	81	74	69	64	63	59	55		52	49	46		43
3	80	70	63	57	74	65	58	53	55	50	46		46	42	39		37
4	73	62	54	48	67	58	50	45	49	43	39		41	37	33		33
5	67	55	47	41	62	51	44	38	44	38	33		37	32	29		30
6	62	49	41	35	57	46	39	33	39	33	29		33	28	25		27
7	57	45	36	31	53	41	34	29	36	30	25		30	25	22		25
8	53	40	33	27	49	38	31	26	32	27	23		27	23	20		23
9	49	37	29	24	45	34	28	23	30	24	20		25	21	18		21
10	46	34	27	22	42	32	25	20	27	22	18		23	19	16		19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10211	10211	10211
5°	10228	9997	10021
10°	10151	9793	9765
15°	10027	9556	9450
20°	9860	9269	9137
25°	9663	8965	8759
30°	9423	8632	8414
35°	9200	8326	8097
40°	8973	8003	7777
45°	8715	7723	7490
50°	8469	7419	7230
55°	8173	7129	6929
60°	7848	6799	6620
65°	7510	6451	6273
70°	7120	5985	5910
75°	6510	5524	5469
80°	5707	4966	4980
85°	4911	4519	4723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8715 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.6
10°-20°	428.1	4.7
20°-30°	636.6	6.9
30°-40°	754.0	8.2
40°-50°	779.5	8.5
50°-60°	718.0	7.8
60°-70°	580.5	6.3
70°-80°	388.4	4.2
80°-90°	202.8	2.2
90°-100°	160.0	1.7
100°-110°	395.7	4.3
110°-120°	618.2	6.7
120°-130°	753.5	8.2
130°-140°	790.3	8.6
140°-150°	731.5	8.0
150°-160°	589.5	6.4
160°-170°	381.2	4.1
170°-180°	131.5	1.4
0°-30°	1215.5	13.2
0°-40°	1969.5	21.4
0°-60°	3467.0	37.7
0°-90°	4638.7	50.5
90°-120°	1173.9	12.8
90°-150°	3449.2	37.5
90°-180°	4551.0	49.5
0°-180°	9190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1594	1594	1594	1594	1594	
5°	1594	1591	1580	1592	1591	151
15°	1522	1523	1512	1522	1516	429
25°	1383	1388	1378	1384	1376	637
35°	1197	1208	1203	1208	1208	749
45°	986	1003	1011	1022	1023	761
55°	758	783	808	825	831	677
65°	522	558	595	619	625	518
75°	288	328	378	409	417	305
85°	86	138	192	227	239	90
90°	26	84	144	186	200	20
95°	79	116	130	170	181	88
105°	316	345	392	423	433	334
115°	576	592	633	657	661	571
125°	812	817	848	869	874	725
135°	1007	1012	1021	1039	1041	777
145°	1166	1166	1166	1175	1175	729
155°	1282	1276	1278	1281	1273	591
165°	1353	1347	1348	1354	1346	382
175°	1384	1378	1379	1387	1378	132
180°	1384	1384	1384	1384	1384	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.7	1593.7	1593.7	1593.7	1593.7
2.5°	1598.4	1595.3	1584.3	1595.3	1593.7
5°	1593.7	1590.6	1579.6	1592.1	1590.6
7.5°	1582.8	1581.2	1570.3	1581.2	1579.6
10°	1567.1	1567.1	1554.6	1565.6	1564.0
12.5°	1545.3	1546.8	1537.5	1545.3	1540.6
15°	1521.8	1523.4	1512.5	1521.8	1515.6
17.5°	1492.1	1495.3	1484.3	1492.1	1487.5
20°	1459.3	1462.5	1451.5	1456.2	1456.2
22.5°	1421.8	1428.1	1415.6	1421.8	1417.1
25°	1382.8	1387.5	1378.1	1384.3	1376.5
27.5°	1340.6	1346.8	1335.9	1340.6	1337.5
30°	1292.1	1301.5	1292.1	1295.3	1293.7
32.5°	1248.4	1256.2	1250.0	1253.1	1251.5
35°	1196.8	1207.8	1203.1	1207.8	1207.8
37.5°	1146.8	1156.2	1154.7	1160.9	1159.3
40°	1095.3	1107.8	1106.2	1112.5	1115.6
42.5°	1039.0	1056.2	1060.9	1068.7	1068.7
45°	985.9	1003.1	1010.9	1021.8	1023.4
47.5°	931.2	946.8	959.3	975.0	978.1
50°	875.0	892.2	909.3	926.5	931.2
52.5°	815.6	837.5	859.3	878.1	881.2
55°	757.8	782.8	807.8	825.0	831.2
57.5°	698.4	728.1	756.2	775.0	779.7
60°	639.0	670.3	701.5	725.0	729.7
62.5°	581.2	612.5	646.9	673.4	679.7
65°	521.9	557.8	595.3	618.7	625.0
67.5°	467.2	501.5	539.0	567.2	575.0
70°	406.2	442.2	482.8	512.5	521.9
72.5°	346.9	384.4	429.7	462.5	468.7
75°	287.5	328.1	378.1	409.4	417.2
77.5°	229.7	276.6	323.4	357.8	364.1
80°	176.6	223.4	276.6	310.9	317.2
82.5°	128.1	178.1	232.8	265.6	278.1
85°	85.9	137.5	192.2	226.6	239.1
87.5°	54.7	104.7	157.8	193.7	204.7
90°	26.0	84.2	144.5	185.6	199.6
92.5°	41.4	77.5	138.3	177.7	189.8
95°	78.8	116.3	130.5	169.9	180.9
97.5°	128.5	172.1	126.3	161.1	173.1
100°	188.5	224.4	278.5	158.4	163.7
102.5°	249.5	283.3	333.7	367.1	290.3
105°	315.7	344.8	391.6	422.9	432.8
107.5°	383.9	405.8	453.1	485.3	490.6
110°	450.0	468.8	514.5	541.1	553.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	513.6	530.7	574.0	598.0	606.8
115°	575.7	591.7	633.3	657.4	660.6
117.5°	640.7	648.5	691.8	712.1	721.0
120°	702.3	706.0	744.9	769.5	773.8
122.5°	755.1	761.8	797.2	820.2	823.4
125°	811.5	817.2	848.4	869.3	874.0
127.5°	864.4	867.9	893.5	914.8	916.0
130°	913.6	917.1	940.1	958.9	961.5
132.5°	961.2	967.4	979.9	1001.8	1003.0
135°	1007.4	1012.1	1020.9	1039.2	1040.8
137.5°	1050.5	1055.1	1059.3	1078.1	1079.2
140°	1091.0	1093.1	1093.6	1112.8	1113.0
142.5°	1129.0	1128.4	1130.5	1144.6	1144.6
145°	1165.9	1166.4	1166.4	1175.2	1175.4
147.5°	1197.2	1197.2	1198.2	1202.3	1198.2
150°	1227.9	1225.9	1227.9	1230.0	1223.4
152.5°	1257.7	1252.6	1254.6	1256.7	1249.5
155°	1282.3	1276.2	1278.2	1281.3	1273.1
157.5°	1301.8	1298.7	1298.7	1301.8	1293.6
160°	1322.3	1316.2	1317.2	1321.3	1313.1
162.5°	1338.7	1332.6	1333.6	1339.8	1330.5
165°	1353.1	1346.9	1348.0	1354.1	1345.9
167.5°	1364.4	1358.2	1359.2	1366.4	1357.2
170°	1373.6	1366.4	1367.5	1375.7	1366.4
172.5°	1379.8	1372.6	1374.6	1381.8	1372.6
175°	1383.9	1377.7	1378.7	1386.9	1377.7
177.5°	1386.9	1380.8	1381.8	1389.0	1380.8
180°	1383.9	1383.9	1383.9	1383.9	1383.9

(END OF REPORT)