

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: P1034967

Luminaire Tested: S125DIW-B1090D1050UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034967
REPORT IS A COMBINATION OF REPORTS P1002782 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1050UB50-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

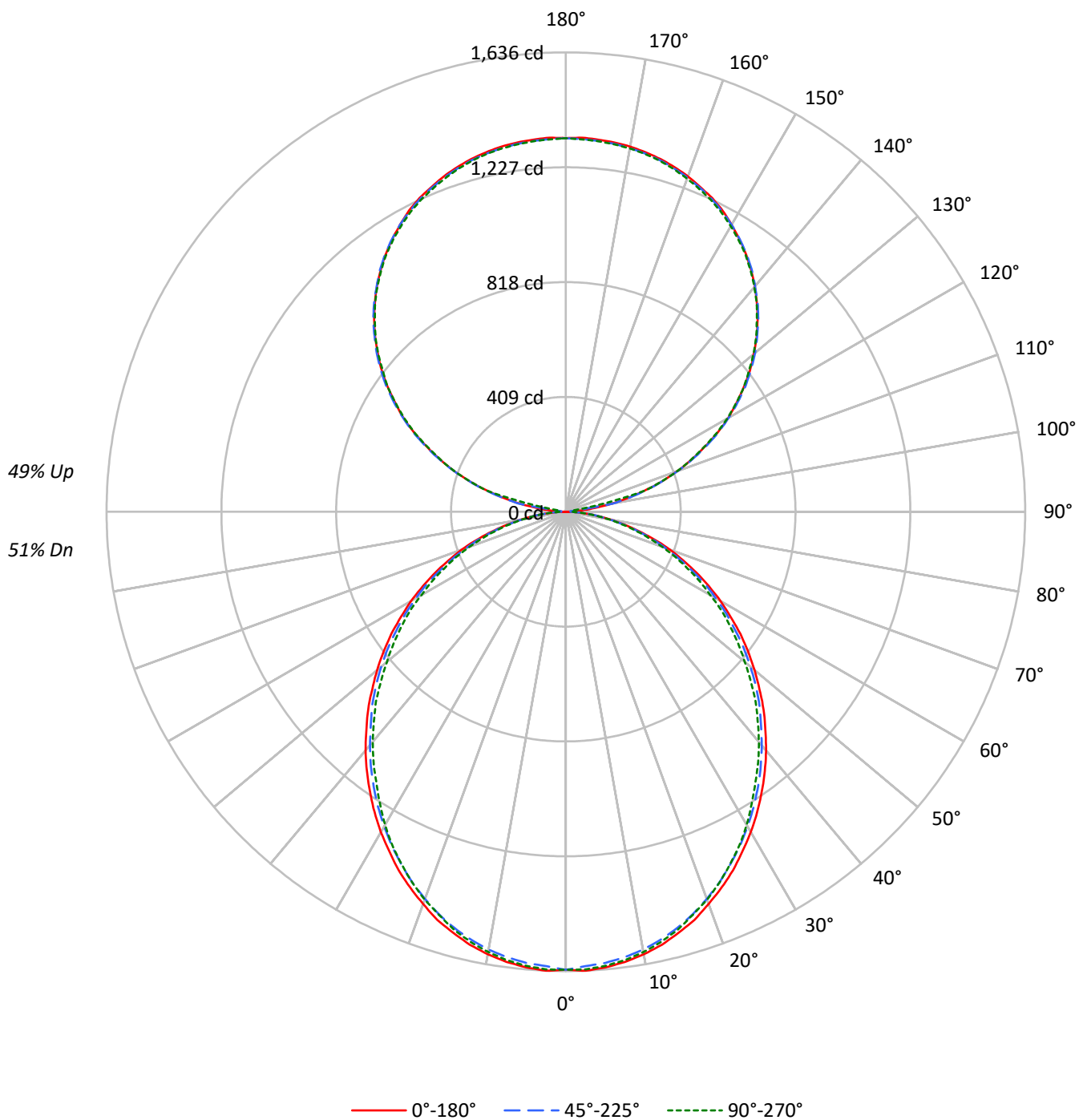
Lumens per Lamp: N/A
Luminaire Lumens: 8334.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78.3
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					0
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	84	84	84	70	70	70	57	57	57	57	57	51
1	98	94	90	86	90	87	83	80	73	71	69	61	60	58	50	49	48	48	48	43
2	89	82	75	70	82	76	70	66	64	60	57	54	51	48	44	42	40	40	40	36
3	81	72	64	59	75	67	60	55	57	52	48	48	44	41	39	37	34	34	34	30
4	74	64	56	49	68	59	52	47	50	45	41	42	38	35	35	32	30	30	30	26
5	68	57	48	42	63	53	45	40	45	39	35	38	34	30	32	28	26	26	26	23
6	63	51	43	37	58	47	40	35	41	35	31	34	30	27	29	25	23	23	23	20
7	58	46	38	32	54	43	36	30	37	31	27	31	27	24	26	23	20	20	20	18
8	54	42	34	28	50	39	32	27	34	28	24	29	24	21	24	21	18	18	18	16
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16	16	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15	15	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10450	10450	10450
5°	10450	10207	10227
10°	10364	9973	9942
15°	10228	9693	9606
20°	10043	9369	9222
25°	9846	9015	8810
30°	9608	8646	8375
35°	9354	8259	7889
40°	9091	7851	7457
45°	8806	7453	6997
50°	8493	7001	6462
55°	8183	6503	5969
60°	7813	5978	5396
65°	7372	5370	4804
70°	6920	4671	4121
75°	6166	3846	3332
80°	5254	2873	2451
85°	4059	1700	1351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8806 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.9	1.8
10°-20°	434.7	5.2
20°-30°	641.8	7.7
30°-40°	748.8	9.0
40°-50°	752.0	9.0
50°-60°	660.2	7.9
60°-70°	491.7	5.9
70°-80°	280.8	3.4
80°-90°	83.0	1.0
90°-100°	45.2	0.5
100°-110°	300.3	3.6
110°-120°	540.7	6.5
120°-130°	694.1	8.3
130°-140°	746.5	9.0
140°-150°	700.6	8.4
150°-160°	566.7	6.8
160°-170°	366.5	4.4
170°-180°	126.4	1.5
0°-30°	1230.4	14.8
0°-40°	1979.2	23.7
0°-60°	3391.4	40.7
0°-90°	4247.0	51.0
90°-120°	886.2	10.6
90°-150°	3027.4	36.3
90°-180°	4087.0	49.0
0°-180°	8334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1628	1626	1613	1624	1623	155
15°	1552	1548	1534	1541	1541	438
25°	1409	1403	1386	1388	1384	648
35°	1217	1212	1194	1187	1177	761
45°	996	991	976	960	956	767
55°	759	755	737	725	716	677
65°	512	510	496	484	479	508
75°	272	270	263	259	254	290
85°	71	72	72	71	68	78
90°	1	9	16	21	24	8
95°	56	53	16	21	21	69
105°	290	294	294	294	293	307
115°	544	549	550	546	540	540
125°	774	781	781	777	774	692
135°	966	972	970	968	962	744
145°	1119	1121	1121	1122	1116	700
155°	1233	1227	1229	1232	1224	568
165°	1301	1295	1296	1302	1294	367
175°	1330	1325	1326	1334	1325	127
180°	1330	1330	1330	1330	1330	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.0	1631.0	1631.0	1631.0	1631.0
2.5°	1636.1	1632.3	1619.4	1632.3	1631.0
5°	1628.4	1625.8	1612.9	1624.5	1623.2
7.5°	1616.8	1614.2	1600.0	1611.6	1610.3
10°	1600.0	1597.4	1583.2	1593.5	1592.3
12.5°	1579.4	1574.2	1561.3	1569.0	1569.0
15°	1552.3	1548.4	1534.2	1540.6	1540.6
17.5°	1523.9	1517.4	1503.2	1511.0	1504.5
20°	1486.4	1483.9	1467.1	1476.1	1469.7
22.5°	1449.0	1443.9	1428.4	1433.5	1429.7
25°	1409.0	1402.6	1385.8	1388.4	1384.5
27.5°	1362.6	1358.7	1341.9	1343.2	1339.4
30°	1317.4	1313.5	1294.2	1291.6	1287.7
32.5°	1268.4	1261.9	1245.2	1240.0	1232.3
35°	1216.8	1211.6	1193.5	1187.1	1176.8
37.5°	1163.9	1157.4	1140.6	1131.6	1125.2
40°	1109.7	1103.2	1085.2	1073.5	1069.7
42.5°	1051.6	1046.4	1028.4	1018.1	1011.6
45°	996.1	991.0	975.5	960.0	956.1
47.5°	935.5	936.8	917.4	901.9	892.9
50°	877.4	873.5	858.1	841.3	832.3
52.5°	818.1	815.5	798.7	784.5	774.2
55°	758.7	754.8	736.8	725.2	716.1
57.5°	695.5	694.2	678.7	663.2	659.4
60°	636.1	631.0	616.8	603.9	594.8
62.5°	574.2	570.3	558.7	544.5	538.1
65°	512.3	509.7	495.5	483.9	478.7
67.5°	451.6	446.5	436.1	425.8	423.2
70°	394.8	388.4	376.8	369.0	363.9
72.5°	332.9	329.0	322.6	313.5	308.4
75°	272.3	269.7	263.2	259.4	254.2
77.5°	215.5	214.2	210.3	207.7	203.9
80°	162.6	162.6	160.0	158.7	156.1
82.5°	116.1	113.5	113.5	111.0	111.0
85°	71.0	72.3	72.3	71.0	68.4
87.5°	34.8	34.8	33.5	33.5	31.0
90°	1.0	8.9	15.8	20.7	23.7
92.5°	18.7	9.9	15.8	20.7	21.7
95°	56.2	53.3	15.8	20.7	20.7
97.5°	105.5	111.5	17.8	19.7	20.7
100°	164.7	167.7	171.6	24.7	20.7
102.5°	224.9	228.8	230.8	232.8	149.9
105°	290.0	293.9	293.9	293.9	292.9
107.5°	357.0	357.0	359.0	360.0	356.1
110°	422.1	422.1	424.1	421.1	422.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	483.3	486.2	487.2	483.3	481.3
115°	544.4	549.4	550.3	546.4	540.5
117.5°	608.5	608.5	612.5	606.6	604.6
120°	667.7	666.7	669.7	667.7	662.8
122.5°	720.0	724.9	725.9	723.9	718.0
125°	774.2	781.1	781.1	777.2	774.2
127.5°	826.5	831.4	830.5	828.5	820.6
130°	873.9	878.8	879.8	876.8	871.9
132.5°	921.2	927.1	924.2	924.2	919.2
135°	965.6	971.5	969.5	967.5	961.6
137.5°	1007.0	1012.9	1010.9	1010.9	1006.0
140°	1047.4	1049.4	1048.4	1050.4	1044.5
142.5°	1083.9	1084.9	1086.9	1086.9	1081.0
145°	1119.4	1121.4	1121.4	1122.4	1116.5
147.5°	1151.0	1151.0	1152.0	1153.0	1146.1
150°	1180.6	1178.6	1180.6	1182.6	1174.7
152.5°	1209.2	1204.3	1206.2	1208.2	1201.3
155°	1232.9	1226.9	1228.9	1231.9	1224.0
157.5°	1251.6	1248.6	1248.6	1251.6	1243.7
160°	1271.3	1265.4	1266.4	1270.3	1262.4
162.5°	1287.1	1281.2	1282.2	1288.1	1279.2
165°	1300.9	1295.0	1296.0	1301.9	1294.0
167.5°	1311.8	1305.8	1306.8	1313.7	1304.9
170°	1320.6	1313.7	1314.7	1322.6	1313.7
172.5°	1326.6	1319.7	1321.6	1328.5	1319.7
175°	1330.5	1324.6	1325.6	1333.5	1324.6
177.5°	1333.5	1327.5	1328.5	1335.4	1327.5
180°	1330.5	1330.5	1330.5	1330.5	1330.5

(END OF REPORT)