

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: P1034992

Luminaire Tested: S125DIW-B1090D1340UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034992
REPORT IS A COMBINATION OF REPORTS P1002845 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1340UB50-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

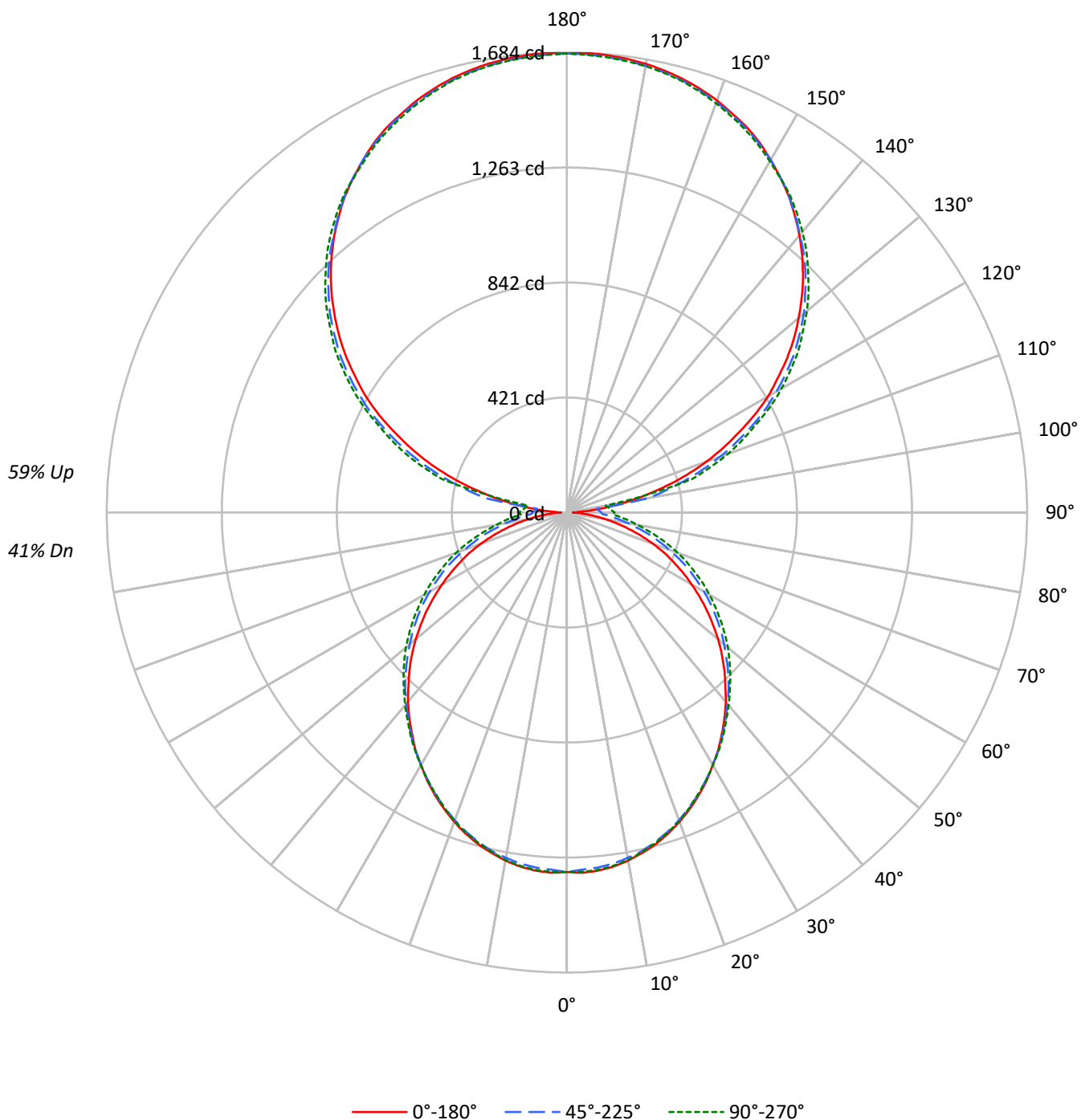
Lumens per Lamp: N/A
Luminaire Lumens: 9241.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 88.9
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
RCR																	
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	95	91	87	83	87	83	79	76	68	65	63	54	53	51	42	41	40
2	86	79	73	67	78	72	67	62	59	55	52	47	45	42	36	34	33
3	79	69	62	56	71	63	57	51	52	47	43	42	38	35	32	30	28
4	72	61	53	47	65	56	49	43	46	41	37	37	33	30	28	26	24
5	66	54	46	40	60	50	42	37	41	36	31	33	29	26	26	23	20
6	61	48	40	34	55	44	37	32	37	31	27	30	26	23	23	20	18
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16
8	52	40	32	26	47	36	29	25	30	25	21	25	21	18	19	16	14
9	48	36	29	23	44	33	26	22	28	23	19	23	19	16	18	15	13
10	45	33	26	21	41	30	24	20	26	20	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8432	8432	8432
5°	8446	8256	8275
10°	8382	8087	8064
15°	8280	7891	7804
20°	8143	7655	7545
25°	7980	7403	7233
30°	7782	7129	6949
35°	7598	6875	6687
40°	7410	6609	6423
45°	7198	6378	6185
50°	6994	6126	5971
55°	6749	5888	5722
60°	6481	5614	5467
65°	6202	5327	5180
70°	5881	4943	4881
75°	5375	4562	4516
80°	4712	4101	4112
85°	4059	3732	3899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.3
10°-20°	353.5	3.8
20°-30°	525.7	5.7
30°-40°	622.6	6.7
40°-50°	643.7	7.0
50°-60°	593.0	6.4
60°-70°	479.3	5.2
70°-80°	320.7	3.5
80°-90°	168.3	1.8
90°-100°	150.4	1.6
100°-110°	448.1	4.8
110°-120°	729.0	7.9
120°-130°	902.7	9.8
130°-140°	954.2	10.3
140°-150°	887.1	9.6
150°-160°	715.7	7.7
160°-170°	462.9	5.0
170°-180°	159.6	1.7
0°-30°	1003.8	10.9
0°-40°	1626.4	17.6
0°-60°	2863.1	31.0
0°-90°	3831.4	41.5
90°-120°	1327.5	14.4
90°-150°	4071.4	44.1
90°-180°	5410.0	58.5
0°-180°	9241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1316	1314	1304	1315	1314	125
15°	1257	1258	1249	1257	1252	354
25°	1142	1146	1138	1143	1137	526
35°	988	997	994	997	997	619
45°	814	828	835	844	845	628
55°	626	646	667	681	686	559
65°	431	461	492	511	516	428
75°	237	271	312	338	344	252
85°	71	114	159	187	197	74
90°	22	73	126	162	174	18
95°	88	118	114	149	158	100
105°	378	404	442	468	476	400
115°	695	711	745	764	764	689
125°	983	990	1016	1032	1035	878
135°	1222	1228	1235	1249	1248	942
145°	1415	1416	1416	1424	1422	885
155°	1557	1550	1552	1556	1546	717
165°	1643	1636	1637	1644	1634	464
175°	1680	1673	1674	1684	1673	160
180°	1680	1680	1680	1680	1680	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1320.0	1317.4	1308.3	1317.4	1316.1
5°	1316.1	1313.5	1304.5	1314.8	1313.5
7.5°	1307.1	1305.8	1296.7	1305.8	1304.5
10°	1294.1	1294.1	1283.8	1292.9	1291.6
12.5°	1276.1	1277.4	1269.6	1276.1	1272.2
15°	1256.7	1258.0	1249.0	1256.7	1251.6
17.5°	1232.2	1234.8	1225.8	1232.2	1228.3
20°	1205.1	1207.7	1198.7	1202.5	1202.5
22.5°	1174.2	1179.3	1169.0	1174.2	1170.3
25°	1141.9	1145.8	1138.0	1143.2	1136.7
27.5°	1107.1	1112.2	1103.2	1107.1	1104.5
30°	1067.1	1074.8	1067.1	1069.6	1068.4
32.5°	1030.9	1037.4	1032.2	1034.8	1033.5
35°	988.4	997.4	993.5	997.4	997.4
37.5°	947.1	954.8	953.5	958.7	957.4
40°	904.5	914.8	913.5	918.7	921.3
42.5°	858.0	872.2	876.1	882.6	882.6
45°	814.2	828.4	834.8	843.8	845.1
47.5°	769.0	781.9	792.2	805.1	807.7
50°	722.6	736.7	750.9	765.1	769.0
52.5°	673.5	691.6	709.7	725.1	727.7
55°	625.8	646.4	667.1	681.3	686.4
57.5°	576.8	601.3	624.5	640.0	643.8
60°	527.7	553.5	579.3	598.7	602.6
62.5°	480.0	505.8	534.2	556.1	561.3
65°	431.0	460.6	491.6	511.0	516.1
67.5°	385.8	414.2	445.1	468.4	474.8
70°	335.5	365.1	398.7	423.2	431.0
72.5°	286.4	317.4	354.8	381.9	387.1
75°	237.4	271.0	312.2	338.1	344.5
77.5°	189.7	228.4	267.1	295.5	300.6
80°	145.8	184.5	228.4	256.8	261.9
82.5°	105.8	147.1	192.3	219.3	229.7
85°	71.0	113.5	158.7	187.1	197.4
87.5°	45.2	86.4	130.3	160.0	169.0
90°	21.8	73.1	125.7	161.7	174.4
92.5°	41.8	68.0	120.5	155.2	165.5
95°	87.8	117.6	114.1	148.8	157.8
97.5°	148.8	187.3	111.4	141.0	151.4
100°	222.2	253.0	299.3	140.8	143.6
102.5°	296.9	326.4	368.9	397.2	300.3
105°	377.8	403.5	442.2	468.0	475.7
107.5°	461.2	479.3	519.2	546.2	549.1
110°	542.1	557.6	596.2	617.1	627.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	619.3	634.7	670.8	689.0	695.5
115°	695.3	710.6	745.3	763.6	763.9
117.5°	775.0	781.4	818.7	833.1	839.6
120°	849.8	852.3	885.8	905.2	906.7
122.5°	914.5	922.0	951.6	969.8	970.0
125°	983.0	990.4	1016.2	1031.8	1034.6
127.5°	1047.7	1052.6	1073.3	1090.2	1087.9
130°	1107.5	1112.4	1131.7	1146.0	1146.3
132.5°	1166.0	1173.4	1182.6	1200.6	1199.6
135°	1222.0	1228.2	1234.7	1249.0	1247.9
137.5°	1274.3	1280.5	1283.2	1298.6	1297.6
140°	1324.1	1326.6	1326.7	1343.3	1341.0
142.5°	1370.2	1370.1	1372.6	1384.2	1382.0
145°	1415.0	1416.2	1416.2	1424.0	1421.6
147.5°	1453.6	1453.6	1454.8	1458.7	1452.6
150°	1491.0	1488.5	1491.0	1493.5	1484.8
152.5°	1527.1	1520.9	1523.4	1525.8	1517.1
155°	1557.0	1549.5	1552.0	1555.7	1545.8
157.5°	1580.6	1576.9	1576.9	1580.6	1570.7
160°	1605.6	1598.1	1599.3	1604.3	1594.3
162.5°	1625.5	1618.0	1619.3	1626.7	1615.5
165°	1642.9	1635.5	1636.7	1644.2	1634.2
167.5°	1656.6	1649.2	1650.4	1659.1	1647.9
170°	1667.8	1659.1	1660.4	1670.3	1659.1
172.5°	1675.3	1666.6	1669.1	1677.8	1666.6
175°	1680.3	1672.8	1674.1	1684.0	1672.8
177.5°	1684.0	1676.6	1677.8	1686.5	1676.6
180°	1680.3	1680.3	1680.3	1680.3	1680.3

(END OF REPORT)