

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: P1034988

Luminaire Tested: S125DIW-B1090D1340UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034988
REPORT IS A COMBINATION OF REPORTS P1002836 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1340UB40-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

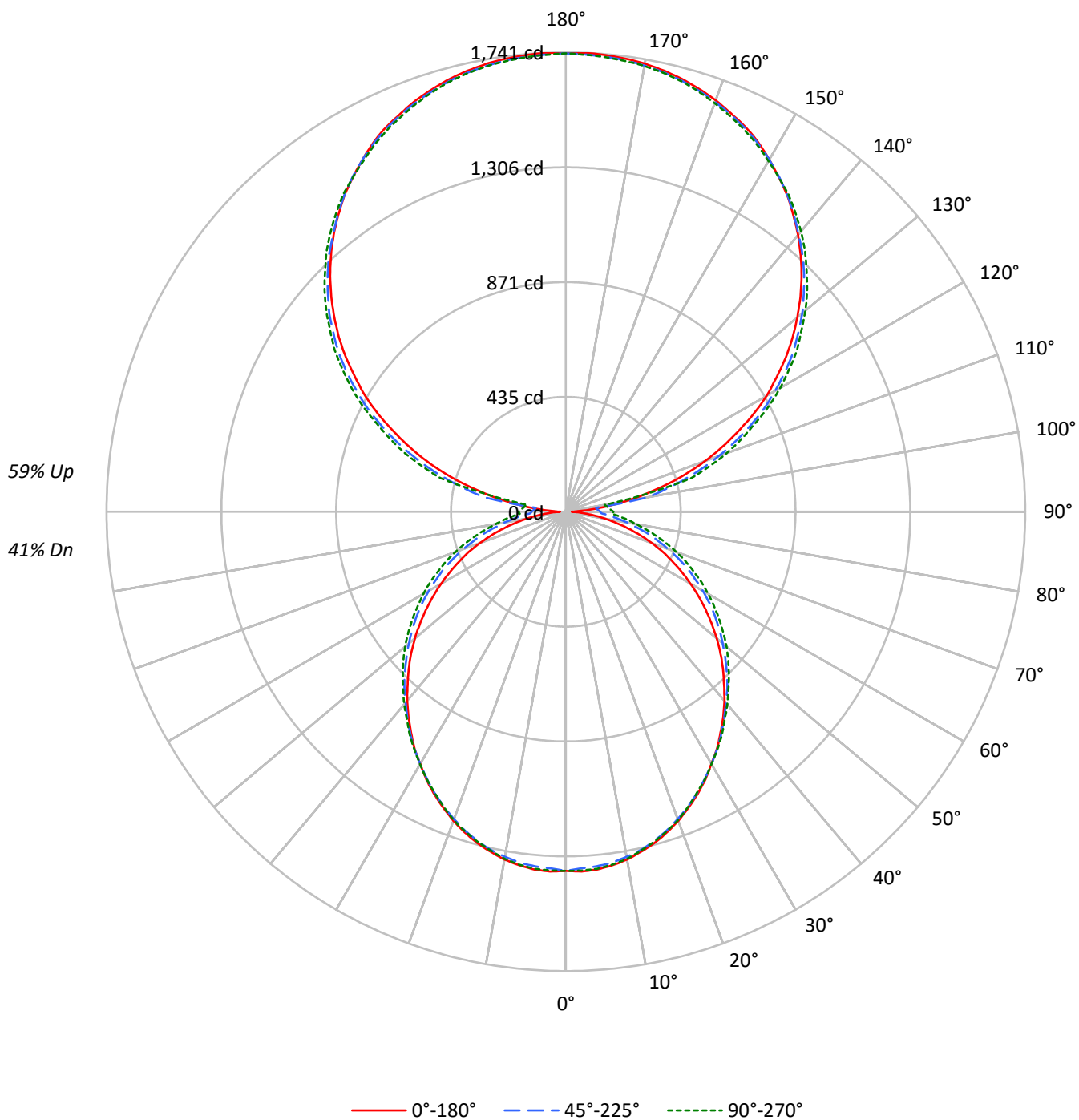
Lumens per Lamp: N/A
Luminaire Lumens: 9556.0 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	8720	8720	8720
5°	8734	8537	8558
10°	8669	8363	8339
15°	8563	8161	8070
20°	8420	7915	7802
25°	8251	7655	7480
30°	8047	7371	7186
35°	7857	7110	6914
40°	7662	6834	6641
45°	7442	6595	6396
50°	7232	6335	6174
55°	6979	6088	5917
60°	6702	5806	5653
65°	6412	5510	5356
70°	6081	5111	5046
75°	5559	4718	4669
80°	4873	4241	4253
85°	4197	3859	4032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.3
10°-20°	365.6	3.8
20°-30°	543.6	5.7
30°-40°	643.8	6.7
40°-50°	665.6	7.0
50°-60°	613.2	6.4
60°-70°	495.7	5.2
70°-80°	331.7	3.5
80°-90°	174.0	1.8
90°-100°	155.5	1.6
100°-110°	463.3	4.8
110°-120°	753.8	7.9
120°-130°	933.4	9.8
130°-140°	986.7	10.3
140°-150°	917.3	9.6
150°-160°	740.1	7.7
160°-170°	478.7	5.0
170°-180°	165.1	1.7
0°-30°	1038.0	10.9
0°-40°	1681.9	17.6
0°-60°	2960.7	31.0
0°-90°	3962.0	41.5
90°-120°	1372.7	14.4
90°-150°	4210.1	44.1
90°-180°	5594.0	58.5
0°-180°	9556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1361	1358	1349	1360	1358	129
15°	1300	1301	1292	1300	1294	366
25°	1181	1185	1177	1182	1176	544
35°	1022	1031	1027	1031	1031	640
45°	842	857	863	873	874	650
55°	647	668	690	704	710	578
65°	446	476	508	528	534	442
75°	246	280	323	350	356	260
85°	73	117	164	194	204	77
90°	23	76	130	167	180	19
95°	91	122	118	154	163	104
105°	391	417	457	484	492	414
115°	719	735	771	790	790	713
125°	1016	1024	1051	1067	1070	908
135°	1264	1270	1277	1292	1290	974
145°	1463	1464	1464	1472	1470	915
155°	1610	1602	1605	1609	1598	742
165°	1699	1691	1692	1700	1690	480
175°	1738	1730	1731	1741	1730	165
180°	1738	1738	1738	1738	1738	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.0	1361.0	1361.0	1361.0	1361.0
2.5°	1365.0	1362.3	1352.9	1362.3	1361.0
5°	1361.0	1358.3	1348.9	1359.6	1358.3
7.5°	1351.6	1350.3	1340.9	1350.3	1348.9
10°	1338.3	1338.3	1327.6	1336.9	1335.6
12.5°	1319.6	1320.9	1312.9	1319.6	1315.6
15°	1299.6	1300.9	1291.6	1299.6	1294.2
17.5°	1274.2	1276.9	1267.6	1274.2	1270.2
20°	1246.2	1248.9	1239.5	1243.5	1243.5
22.5°	1214.2	1219.5	1208.8	1214.2	1210.2
25°	1180.8	1184.8	1176.8	1182.2	1175.5
27.5°	1144.8	1150.1	1140.8	1144.8	1142.1
30°	1103.4	1111.4	1103.4	1106.1	1104.8
32.5°	1066.1	1072.8	1067.4	1070.1	1068.7
35°	1022.1	1031.4	1027.4	1031.4	1031.4
37.5°	979.4	987.4	986.0	991.4	990.0
40°	935.3	946.0	944.7	950.0	952.7
42.5°	887.3	902.0	906.0	912.6	912.6
45°	841.9	856.6	863.3	872.6	873.9
47.5°	795.2	808.6	819.2	832.6	835.3
50°	747.2	761.9	776.5	791.2	795.2
52.5°	696.5	715.2	733.8	749.9	752.5
55°	647.1	668.5	689.8	704.5	709.8
57.5°	596.4	621.8	645.8	661.8	665.8
60°	545.7	572.4	599.1	619.1	623.1
62.5°	496.3	523.0	552.4	575.1	580.4
65°	445.6	476.3	508.4	528.4	533.7
67.5°	398.9	428.3	460.3	484.3	491.0
70°	346.9	377.6	412.3	437.6	445.6
72.5°	296.2	328.2	366.9	394.9	400.3
75°	245.5	280.2	322.9	349.6	356.2
77.5°	196.1	236.2	276.2	305.5	310.9
80°	150.8	190.8	236.2	265.5	270.9
82.5°	109.4	152.1	198.8	226.8	237.5
85°	73.4	117.4	164.1	193.5	204.1
87.5°	46.7	89.4	134.8	165.4	174.8
90°	22.6	75.6	130.0	167.1	180.3
92.5°	43.2	70.3	124.7	160.4	171.1
95°	90.7	121.6	118.0	153.8	163.1
97.5°	153.8	193.5	115.3	145.9	156.4
100°	229.8	261.7	309.5	145.6	148.4
102.5°	307.0	337.5	381.5	410.7	310.5
105°	390.7	417.2	457.2	483.9	491.9
107.5°	477.0	495.7	536.8	564.8	567.7
110°	560.6	576.7	616.6	638.1	648.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	640.4	656.3	693.7	712.5	719.3
115°	719.0	734.7	770.7	789.7	789.9
117.5°	801.4	808.0	846.6	861.5	868.3
120°	878.7	881.4	916.0	936.0	937.7
122.5°	945.6	953.4	984.0	1002.8	1003.1
125°	1016.4	1024.1	1050.8	1067.0	1069.8
127.5°	1083.4	1088.5	1109.9	1127.4	1125.0
130°	1145.2	1150.3	1170.2	1185.1	1185.3
132.5°	1205.7	1213.5	1222.9	1241.6	1240.5
135°	1263.7	1270.0	1276.8	1291.6	1290.5
137.5°	1317.8	1324.1	1326.9	1342.9	1341.8
140°	1369.2	1371.8	1371.9	1389.1	1386.7
142.5°	1416.9	1416.8	1419.4	1431.4	1429.0
145°	1463.2	1464.5	1464.5	1472.5	1470.1
147.5°	1503.1	1503.1	1504.4	1508.4	1502.0
150°	1541.8	1539.2	1541.8	1544.4	1535.4
152.5°	1579.1	1572.7	1575.3	1577.8	1568.8
155°	1610.0	1602.3	1604.9	1608.8	1598.5
157.5°	1634.5	1630.7	1630.7	1634.5	1624.2
160°	1660.3	1652.6	1653.8	1659.0	1648.7
162.5°	1680.9	1673.2	1674.4	1682.2	1670.6
165°	1698.9	1691.2	1692.5	1700.2	1689.9
167.5°	1713.1	1705.4	1706.6	1715.7	1704.1
170°	1724.7	1715.7	1717.0	1727.3	1715.7
172.5°	1732.4	1723.4	1726.0	1735.0	1723.4
175°	1737.6	1729.8	1731.1	1741.4	1729.8
177.5°	1741.4	1733.7	1735.0	1744.0	1733.7
180°	1737.6	1737.6	1737.6	1737.6	1737.6

(END OF REPORT)