

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: P1034978

Luminaire Tested: S125DIW-B1090D1340UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034978
REPORT IS A COMBINATION OF REPORTS P1002819 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D1340UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

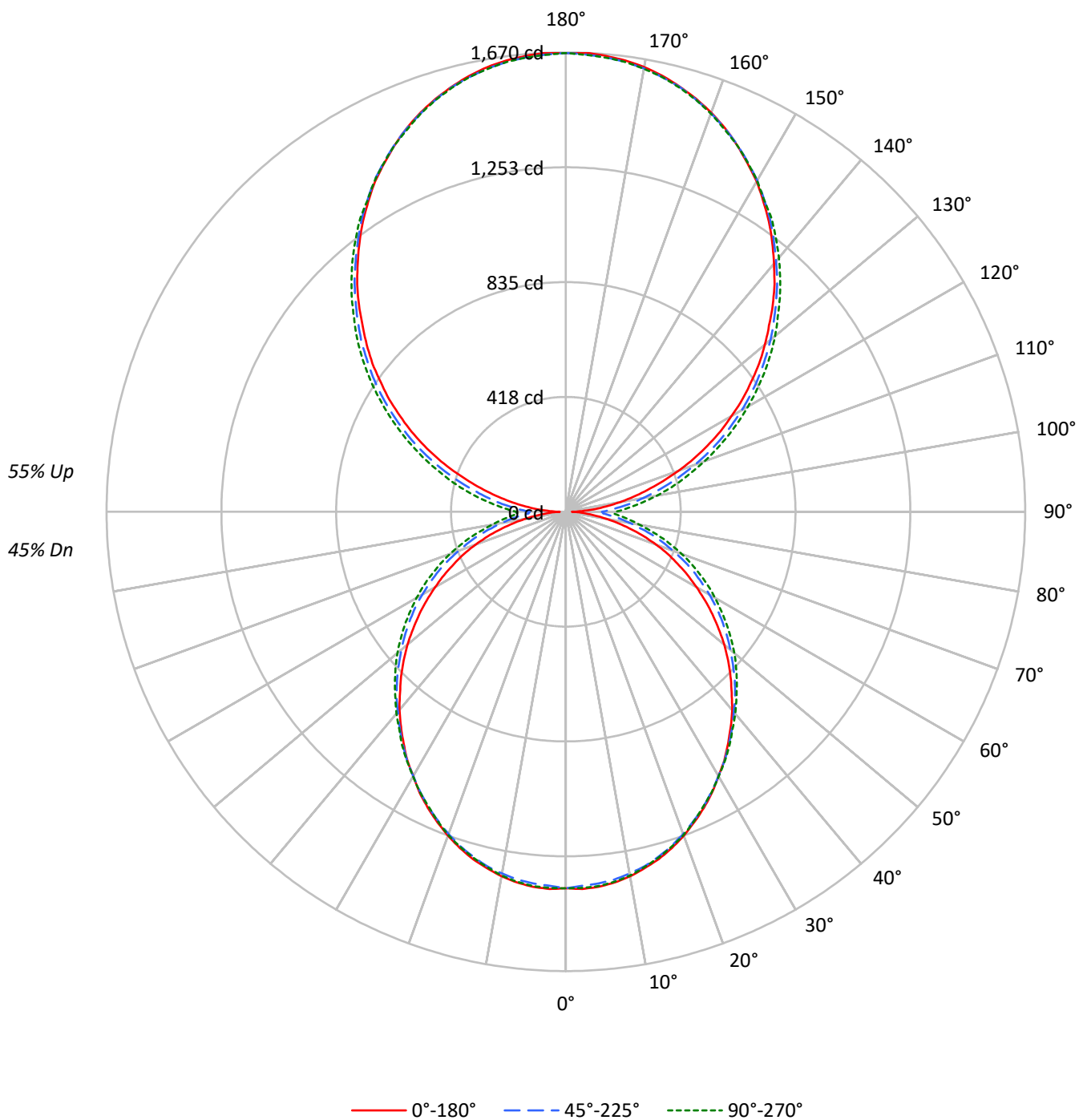
Lumens per Lamp: N/A
Luminaire Lumens: 8897.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	91	87	84	88	84	80	77	69	67	65	56	55	53	44	43	42
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	39	37	35
3	79	70	62	56	72	64	57	52	53	48	44	43	40	37	34	32	29
4	72	61	53	47	66	56	49	44	47	42	37	38	34	31	30	27	25
5	66	55	46	40	60	50	43	38	42	36	32	34	30	27	27	24	22
6	61	49	41	35	56	45	38	32	38	32	28	31	27	23	25	22	19
7	56	44	36	30	51	41	33	28	34	29	24	28	24	21	22	19	17
8	52	40	32	27	48	37	30	25	31	26	22	26	21	18	21	17	15
9	49	36	29	24	44	34	27	22	28	23	19	24	19	16	19	16	14
10	45	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8769	8769	8769
5°	8784	8585	8606
10°	8718	8411	8387
15°	8612	8207	8116
20°	8468	7961	7847
25°	8299	7699	7522
30°	8093	7414	7227
35°	7902	7150	6954
40°	7705	6873	6679
45°	7485	6633	6432
50°	7273	6372	6210
55°	7019	6122	5951
60°	6741	5839	5686
65°	6449	5541	5386
70°	6116	5140	5076
75°	5590	4744	4697
80°	4899	4264	4276
85°	4220	3880	4055

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7485 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.5
10°-20°	367.7	4.1
20°-30°	546.7	6.1
30°-40°	647.5	7.3
40°-50°	669.4	7.5
50°-60°	616.7	6.9
60°-70°	498.5	5.6
70°-80°	333.6	3.7
80°-90°	175.0	2.0
90°-100°	208.0	2.3
100°-110°	401.1	4.5
110°-120°	606.7	6.8
120°-130°	762.7	8.6
130°-140°	836.1	9.4
140°-150°	810.3	9.1
150°-160°	678.6	7.6
160°-170°	451.1	5.1
170°-180°	157.9	1.8
0°-30°	1043.9	11.7
0°-40°	1691.5	19.0
0°-60°	2977.5	33.5
0°-90°	3984.6	44.8
90°-120°	1215.7	13.7
90°-150°	3624.8	40.7
90°-180°	4912.0	55.2
0°-180°	8897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1369	1366	1357	1367	1366	130
15°	1307	1308	1299	1307	1302	368
25°	1188	1192	1184	1189	1182	547
35°	1028	1037	1033	1037	1037	643
45°	847	862	868	878	879	653
55°	651	672	694	708	714	582
65°	448	479	511	531	537	445
75°	247	282	325	352	358	262
85°	74	118	165	195	205	77
90°	23	76	131	168	181	21
95°	102	139	198	236	248	102
105°	308	336	384	419	432	328
115°	568	582	619	642	649	561
125°	822	828	856	875	880	736
135°	1064	1071	1081	1099	1100	820
145°	1287	1291	1295	1302	1303	805
155°	1472	1472	1473	1478	1472	678
165°	1600	1598	1599	1604	1596	452
175°	1664	1659	1659	1666	1657	158
180°	1668	1668	1668	1668	1668	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1372.7	1370.0	1360.7	1370.0	1368.7
5°	1368.7	1366.0	1356.6	1367.4	1366.0
7.5°	1359.3	1358.0	1348.6	1358.0	1356.6
10°	1345.9	1345.9	1335.2	1344.5	1343.2
12.5°	1327.1	1328.4	1320.4	1327.1	1323.1
15°	1307.0	1308.3	1298.9	1307.0	1301.6
17.5°	1281.5	1284.2	1274.8	1281.5	1277.5
20°	1253.3	1256.0	1246.6	1250.6	1250.6
22.5°	1221.1	1226.5	1215.7	1221.1	1217.1
25°	1187.6	1191.6	1183.5	1188.9	1182.2
27.5°	1151.3	1156.7	1147.3	1151.3	1148.6
30°	1109.7	1117.8	1109.7	1112.4	1111.1
32.5°	1072.2	1078.9	1073.5	1076.2	1074.8
35°	1027.9	1037.3	1033.2	1037.3	1037.3
37.5°	984.9	993.0	991.6	997.0	995.7
40°	940.6	951.4	950.0	955.4	958.1
42.5°	892.3	907.1	911.1	917.8	917.8
45°	846.7	861.5	868.2	877.6	878.9
47.5°	799.8	813.2	823.9	837.3	840.0
50°	751.4	766.2	781.0	795.7	799.8
52.5°	700.5	719.2	738.0	754.1	756.8
55°	650.8	672.3	693.7	708.5	713.9
57.5°	599.8	625.3	649.5	665.6	669.6
60°	548.8	575.7	602.5	622.6	626.7
62.5°	499.2	526.0	555.5	578.3	583.7
65°	448.2	479.0	511.3	531.4	536.7
67.5°	401.2	430.7	462.9	487.1	493.8
70°	348.9	379.7	414.6	440.1	448.2
72.5°	297.9	330.1	369.0	397.2	402.6
75°	246.9	281.8	324.7	351.6	358.3
77.5°	197.3	237.5	277.8	307.3	312.7
80°	151.6	191.9	237.5	267.0	272.4
82.5°	110.0	153.0	199.9	228.1	238.9
85°	73.8	118.1	165.0	194.6	205.3
87.5°	47.0	89.9	135.5	166.4	175.8
90°	22.8	76.1	130.8	168.2	181.4
92.5°	57.7	103.1	161.8	200.4	212.4
95°	101.8	139.3	197.9	236.5	248.5
97.5°	145.9	179.4	241.8	277.8	288.5
100°	196.5	224.6	284.5	324.3	334.9
102.5°	250.9	282.9	331.0	370.8	382.8
105°	308.0	335.9	384.0	418.6	431.9
107.5°	370.2	395.5	440.9	471.7	479.7
110°	435.1	457.7	499.2	528.6	536.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	502.6	517.3	558.7	584.2	590.9
115°	567.5	582.0	619.4	642.3	649.1
117.5°	633.5	641.5	677.7	701.8	706.0
120°	695.8	706.3	738.5	761.3	764.2
122.5°	762.0	764.6	798.0	818.2	822.4
125°	821.7	828.1	856.3	875.1	880.5
127.5°	886.5	889.1	913.2	932.0	937.5
130°	944.9	950.1	971.5	989.0	993.1
132.5°	1002.0	1013.7	1025.8	1043.3	1044.8
135°	1064.3	1070.7	1081.4	1098.9	1100.4
137.5°	1122.7	1129.1	1137.1	1154.5	1153.4
140°	1177.1	1183.6	1188.9	1206.2	1205.1
142.5°	1232.9	1236.8	1242.0	1255.4	1254.2
145°	1287.4	1291.3	1295.2	1301.9	1303.4
147.5°	1336.8	1340.6	1343.2	1349.8	1342.2
150°	1387.4	1386.1	1391.3	1391.3	1390.0
152.5°	1428.9	1431.5	1432.8	1436.7	1431.5
155°	1471.7	1471.7	1473.0	1478.2	1471.7
157.5°	1510.7	1508.1	1509.4	1514.6	1505.5
160°	1544.4	1540.5	1541.8	1547.0	1540.5
162.5°	1574.3	1571.7	1571.7	1578.1	1570.4
165°	1600.2	1597.6	1598.9	1604.1	1596.3
167.5°	1623.6	1618.4	1618.4	1626.2	1618.4
170°	1641.7	1636.5	1636.5	1644.3	1635.3
172.5°	1654.7	1649.5	1649.5	1657.3	1649.5
175°	1663.8	1658.6	1658.6	1666.4	1657.3
177.5°	1670.3	1665.1	1663.8	1671.6	1662.5
180°	1667.7	1667.7	1667.7	1667.7	1667.7

(END OF REPORT)