

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: P1036093

Luminaire Tested: S125RDIW-B850D1340UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036093
REPORT IS A COMBINATION OF REPORTS P1006867 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D1340UB30-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

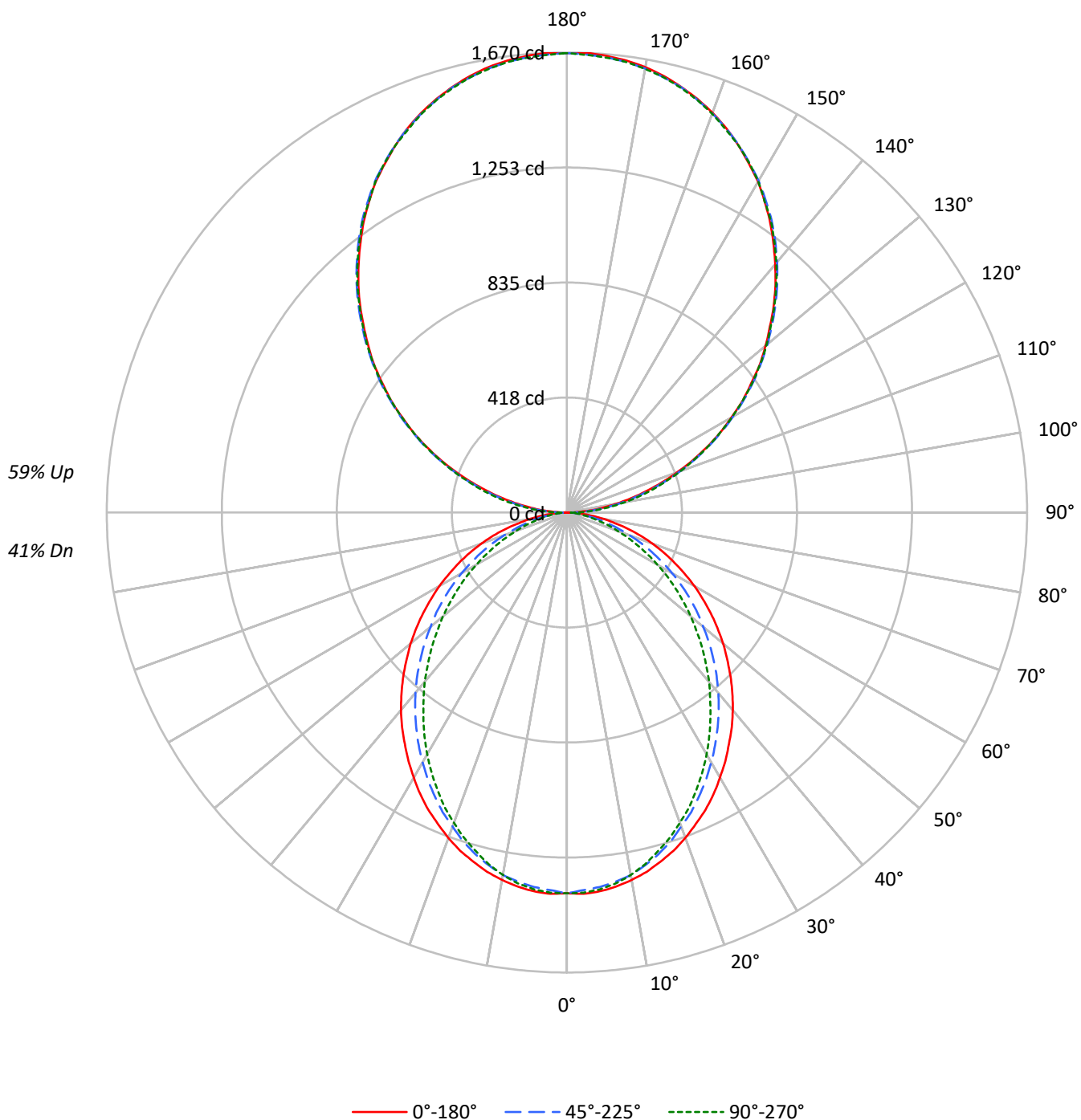
Lumens per Lamp: N/A
Luminaire Lumens: 7923.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78
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	78	78	78	63	63	63	48	48	48
1	96	92	88	85	87	84	81	78	69	67	65	55	54	52	43	42	41
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35
3	80	71	64	58	73	65	59	54	54	49	45	43	40	37	34	32	30
4	73	63	55	49	66	57	51	46	48	43	39	39	35	32	30	28	26
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23
6	62	50	42	36	56	46	39	34	38	33	29	31	27	25	25	22	20
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16
9	49	37	30	25	45	35	28	24	29	24	20	24	20	17	19	16	14
10	46	34	27	23	42	32	25	21	27	22	18	22	18	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8857	8857	8857
5°	8858	8636	8650
10°	8772	8418	8344
15°	8647	8114	7943
20°	8494	7747	7521
25°	8317	7389	7069
30°	8102	6996	6594
35°	7882	6596	6089
40°	7672	6186	5597
45°	7420	5743	5081
50°	7165	5273	4556
55°	6869	4810	4012
60°	6566	4280	3448
65°	6205	3689	2839
70°	5783	3002	2234
75°	5201	2257	1628
80°	4385	1461	1099
85°	3282	785	618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7420 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	1.6
10°-20°	363.6	4.6
20°-30°	527.2	6.7
30°-40°	600.6	7.6
40°-50°	585.4	7.4
50°-60°	492.7	6.2
60°-70°	345.2	4.4
70°-80°	177.0	2.2
80°-90°	46.8	0.6
90°-100°	110.9	1.4
100°-110°	329.5	4.2
110°-120°	558.7	7.1
120°-130°	735.5	9.3
130°-140°	824.2	10.4
140°-150°	807.9	10.2
150°-160°	678.6	8.6
160°-170°	451.1	5.7
170°-180°	157.9	2.0
0°-30°	1020.9	12.9
0°-40°	1621.5	20.5
0°-60°	2699.6	34.1
0°-90°	3268.6	41.3
90°-120°	999.1	12.6
90°-150°	3366.8	42.5
90°-180°	4654.0	58.7
0°-180°	7923.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1380	1376	1365	1375	1373	131
15°	1312	1306	1284	1283	1274	370
25°	1190	1175	1136	1122	1111	548
35°	1025	1000	953	923	908	642
45°	839	809	752	710	694	647
55°	637	604	545	498	481	570
65°	431	396	340	299	283	427
75°	230	198	154	132	124	243
85°	57	39	33	32	31	63
90°	1	12	21	27	31	9
95°	84	87	100	109	112	88
105°	296	302	310	318	322	316
115°	559	565	567	566	565	553
125°	816	824	825	823	822	731
135°	1062	1069	1071	1071	1066	818
145°	1286	1291	1295	1295	1291	804
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°	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1385.5	1382.3	1371.9	1382.3	1381.3
5°	1380.3	1376.1	1364.6	1375.0	1373.0
7.5°	1369.8	1365.6	1352.1	1360.4	1358.3
10°	1354.2	1351.0	1336.4	1339.5	1336.4
12.5°	1336.4	1332.2	1311.4	1313.4	1308.2
15°	1312.4	1306.1	1284.2	1283.2	1273.8
17.5°	1287.3	1277.9	1251.8	1246.6	1239.3
20°	1257.1	1246.6	1213.2	1208.0	1198.6
22.5°	1223.7	1213.2	1177.7	1166.2	1158.9
25°	1190.2	1174.6	1135.9	1122.4	1110.9
27.5°	1152.7	1133.9	1093.1	1075.4	1063.9
30°	1110.9	1091.1	1047.2	1023.2	1013.8
32.5°	1070.2	1046.2	1001.3	974.1	961.6
35°	1025.3	1000.2	953.2	923.0	908.3
37.5°	982.5	952.2	904.2	868.7	854.0
40°	936.5	905.2	855.1	815.4	802.9
42.5°	888.5	856.1	803.9	766.3	746.5
45°	839.4	809.2	751.7	710.0	694.3
47.5°	788.3	757.0	699.5	656.7	639.0
50°	740.2	705.8	646.3	602.4	586.8
52.5°	688.0	652.5	597.2	549.2	533.5
55°	636.9	603.5	545.0	498.0	481.3
57.5°	584.7	549.2	492.8	446.9	432.2
60°	534.6	498.0	441.6	395.7	380.0
62.5°	481.3	446.9	389.4	347.7	332.0
65°	431.2	395.7	340.4	298.6	282.9
67.5°	381.1	345.6	292.3	252.7	240.1
70°	329.9	294.4	242.2	209.9	197.3
72.5°	279.8	245.4	197.3	168.1	160.8
75°	229.7	198.4	154.5	131.6	124.2
77.5°	178.5	153.5	116.9	99.2	92.9
80°	135.7	110.7	81.4	72.0	70.0
82.5°	94.0	72.0	54.3	51.2	50.1
85°	57.4	38.6	33.4	32.4	31.3
87.5°	24.0	16.7	15.7	15.7	14.6
90°	1.3	11.7	20.8	27.3	31.1
92.5°	38.9	45.4	57.1	66.2	68.8
95°	84.4	87.0	99.9	109.0	111.6
97.5°	129.8	131.1	149.2	157.0	158.3
100°	181.7	181.7	198.6	210.2	212.8
102.5°	237.5	244.0	250.5	263.5	267.4
105°	295.9	302.4	310.2	318.0	321.9
107.5°	359.5	366.0	372.5	376.4	376.4
110°	425.7	432.2	436.1	440.0	438.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	493.2	495.8	501.0	502.3	499.7
115°	559.4	564.6	567.1	565.8	564.6
117.5°	626.8	628.1	630.7	632.0	626.8
120°	689.1	695.6	696.9	696.9	691.7
122.5°	756.6	757.9	761.8	760.5	756.6
125°	816.3	824.1	825.4	822.8	821.5
127.5°	882.5	886.4	887.7	886.4	883.8
130°	940.9	947.4	950.0	948.7	946.1
132.5°	999.3	1011.0	1009.7	1008.4	1004.5
135°	1061.6	1069.4	1070.7	1070.7	1065.5
137.5°	1120.0	1127.8	1130.4	1131.7	1125.2
140°	1175.8	1182.3	1186.2	1188.8	1182.3
142.5°	1231.6	1236.8	1242.0	1243.3	1236.8
145°	1286.1	1291.3	1295.2	1295.2	1291.3
147.5°	1336.8	1340.6	1343.2	1347.1	1336.8
150°	1387.4	1386.1	1391.3	1391.3	1388.7
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)