

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: P1034907

Luminaire Tested: S125RDIW-B850D1340UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034907
REPORT IS A COMBINATION OF REPORTS P1006860 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D1340UB2750-4F0-XX-W2A-F_3500K
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

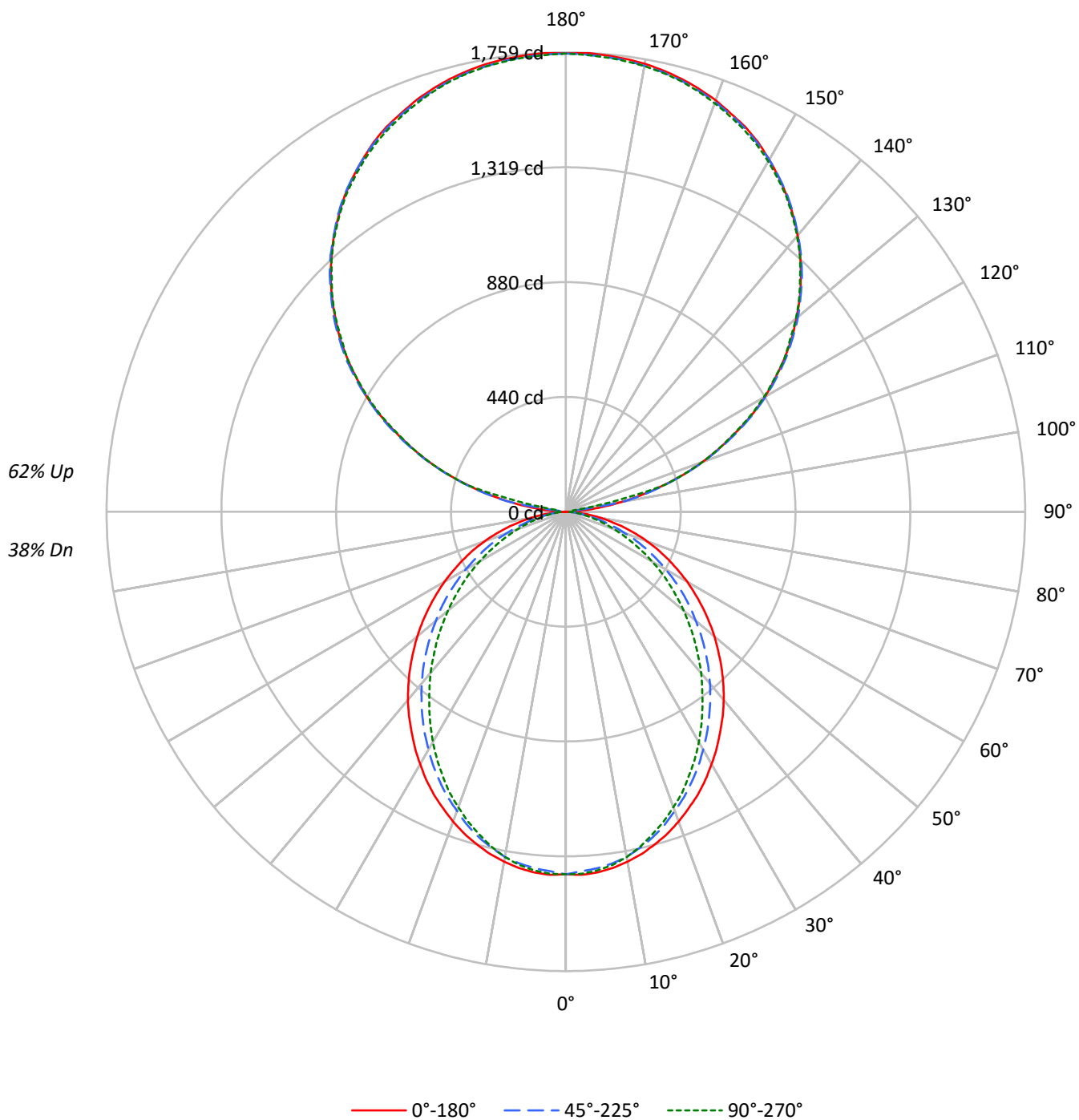
Lumens per Lamp: N/A
Luminaire Lumens: 8673.0 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38		
1	95	91	87	84	86	83	80	77	67	65	63	53	52	50	40	39	38	32		
2	87	80	74	69	79	73	67	63	59	56	52	47	44	42	35	34	32	27		
3	79	70	63	57	72	64	58	53	52	48	44	41	38	36	31	29	28	23		
4	73	62	54	49	66	57	50	45	46	42	38	37	34	31	28	26	24	20		
5	67	55	47	42	60	51	44	39	42	36	33	33	30	27	25	23	21	18		
6	61	50	42	36	55	45	38	33	37	32	28	30	26	23	23	21	19	15		
7	57	45	37	32	51	41	34	29	34	29	25	27	24	21	21	19	17	14		
8	53	41	33	28	48	37	31	26	31	26	22	25	21	18	19	17	15	12		
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	11		
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8895	8895	8895
5°	8896	8673	8687
10°	8809	8454	8380
15°	8684	8149	7976
20°	8530	7781	7553
25°	8353	7421	7099
30°	8137	7026	6622
35°	7915	6625	6115
40°	7705	6213	5621
45°	7452	5768	5103
50°	7196	5296	4576
55°	6898	4830	4030
60°	6594	4298	3463
65°	6230	3704	2852
70°	5807	3016	2245
75°	5224	2268	1636
80°	4405	1469	1104
85°	3299	790	622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7452 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	1.5
10°-20°	365.1	4.2
20°-30°	529.4	6.1
30°-40°	603.2	7.0
40°-50°	587.9	6.8
50°-60°	494.8	5.7
60°-70°	346.7	4.0
70°-80°	177.7	2.0
80°-90°	46.9	0.5
90°-100°	59.5	0.7
100°-110°	396.0	4.6
110°-120°	713.2	8.2
120°-130°	915.4	10.6
130°-140°	984.6	11.4
140°-150°	924.1	10.7
150°-160°	747.5	8.6
160°-170°	483.4	5.6
170°-180°	166.7	1.9
0°-30°	1025.3	11.8
0°-40°	1628.5	18.8
0°-60°	2711.2	31.3
0°-90°	3282.6	37.8
90°-120°	1168.8	13.5
90°-150°	3992.8	46.0
90°-180°	5390.0	62.1
0°-180°	8673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1386	1382	1370	1381	1379	131
15°	1318	1312	1290	1289	1279	372
25°	1195	1180	1141	1127	1116	550
35°	1030	1004	957	927	912	645
45°	843	813	755	713	697	650
55°	640	606	547	500	483	572
65°	433	397	342	300	284	429
75°	231	199	155	132	125	244
85°	58	39	34	32	32	63
90°	1	12	21	27	31	7
95°	74	70	21	27	27	91
105°	382	388	388	388	386	405
115°	718	725	726	721	713	712
125°	1021	1030	1030	1025	1021	912
135°	1274	1281	1279	1276	1268	982
145°	1476	1479	1479	1480	1472	923
155°	1626	1618	1621	1625	1614	749
165°	1716	1708	1709	1717	1707	485
175°	1755	1747	1748	1759	1747	167
180°	1755	1755	1755	1755	1755	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1391.4	1388.3	1377.8	1388.3	1387.2
5°	1386.2	1382.0	1370.4	1380.9	1378.8
7.5°	1375.7	1371.5	1357.9	1366.3	1364.2
10°	1360.0	1356.8	1342.1	1345.3	1342.1
12.5°	1342.1	1337.9	1317.0	1319.1	1313.8
15°	1318.0	1311.7	1289.7	1288.7	1279.2
17.5°	1292.9	1283.4	1257.2	1252.0	1244.6
20°	1262.4	1252.0	1218.4	1213.2	1203.7
22.5°	1228.9	1218.4	1182.8	1171.2	1163.9
25°	1195.3	1179.6	1140.8	1127.2	1115.7
27.5°	1157.6	1138.7	1097.8	1080.0	1068.5
30°	1115.7	1095.7	1051.7	1027.6	1018.1
32.5°	1074.8	1050.6	1005.6	978.3	965.7
35°	1029.7	1004.5	957.3	926.9	912.2
37.5°	986.7	956.3	908.0	872.4	857.7
40°	940.5	909.1	858.8	818.9	806.3
42.5°	892.3	859.8	807.4	769.6	749.7
45°	843.0	812.6	755.0	713.0	697.3
47.5°	791.7	760.2	702.5	659.5	641.7
50°	743.4	708.8	649.1	605.0	589.3
52.5°	691.0	655.3	599.8	551.5	535.8
55°	639.6	606.1	547.3	500.2	483.4
57.5°	587.2	551.5	494.9	448.8	434.1
60°	536.9	500.2	443.5	397.4	381.7
62.5°	483.4	448.8	391.1	349.2	333.4
65°	433.0	397.4	341.8	299.9	284.2
67.5°	382.7	347.1	293.6	253.7	241.2
70°	331.3	295.7	243.3	210.8	198.2
72.5°	281.0	246.4	198.2	168.8	161.5
75°	230.7	199.2	155.2	132.1	124.8
77.5°	179.3	154.1	117.4	99.6	93.3
80°	136.3	111.1	81.8	72.3	70.3
82.5°	94.4	72.3	54.5	51.4	50.3
85°	57.7	38.8	33.6	32.5	31.5
87.5°	24.1	16.8	15.7	15.7	14.7
90°	1.3	11.7	20.8	27.3	31.2
92.5°	24.7	13.0	20.8	27.3	28.6
95°	74.1	70.2	20.8	27.3	27.3
97.5°	139.2	147.0	23.4	26.0	27.3
100°	217.2	221.1	226.3	32.5	27.3
102.5°	296.6	301.8	304.4	307.0	197.7
105°	382.4	387.6	387.6	387.6	386.3
107.5°	470.9	470.9	473.5	474.8	469.6
110°	556.8	556.8	559.4	555.5	556.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	637.4	641.3	642.6	637.4	634.8
115°	718.1	724.6	725.9	720.7	712.8
117.5°	802.6	802.6	807.8	800.0	797.4
120°	880.7	879.4	883.3	880.7	874.2
122.5°	949.6	956.1	957.4	954.8	947.0
125°	1021.1	1030.3	1030.3	1025.0	1021.1
127.5°	1090.1	1096.6	1095.3	1092.7	1082.3
130°	1152.5	1159.0	1160.3	1156.4	1149.9
132.5°	1215.0	1222.8	1218.9	1218.9	1212.4
135°	1273.5	1281.3	1278.7	1276.1	1268.3
137.5°	1328.1	1335.9	1333.3	1333.3	1326.8
140°	1381.5	1384.1	1382.8	1385.4	1377.6
142.5°	1429.6	1430.9	1433.5	1433.5	1425.7
145°	1476.4	1479.0	1479.0	1480.3	1472.5
147.5°	1518.1	1518.1	1519.4	1520.7	1511.6
150°	1557.1	1554.5	1557.1	1559.7	1549.3
152.5°	1594.8	1588.3	1590.9	1593.5	1584.4
155°	1626.0	1618.2	1620.8	1624.7	1614.3
157.5°	1650.7	1646.8	1646.8	1650.7	1640.3
160°	1676.8	1669.0	1670.3	1675.5	1665.1
162.5°	1697.6	1689.8	1691.1	1698.9	1687.2
165°	1715.8	1708.0	1709.3	1717.1	1706.7
167.5°	1730.1	1722.3	1723.6	1732.7	1721.0
170°	1741.8	1732.7	1734.0	1744.4	1732.7
172.5°	1749.6	1740.5	1743.1	1752.2	1740.5
175°	1754.8	1747.0	1748.3	1758.7	1747.0
177.5°	1758.7	1750.9	1752.2	1761.3	1750.9
180°	1754.8	1754.8	1754.8	1754.8	1754.8

(END OF REPORT)