

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: P1034905

Luminaire Tested: S125RDIW-B850D1340UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034905
REPORT IS A COMBINATION OF REPORTS P1006858 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_2700K
Description: Define 5 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

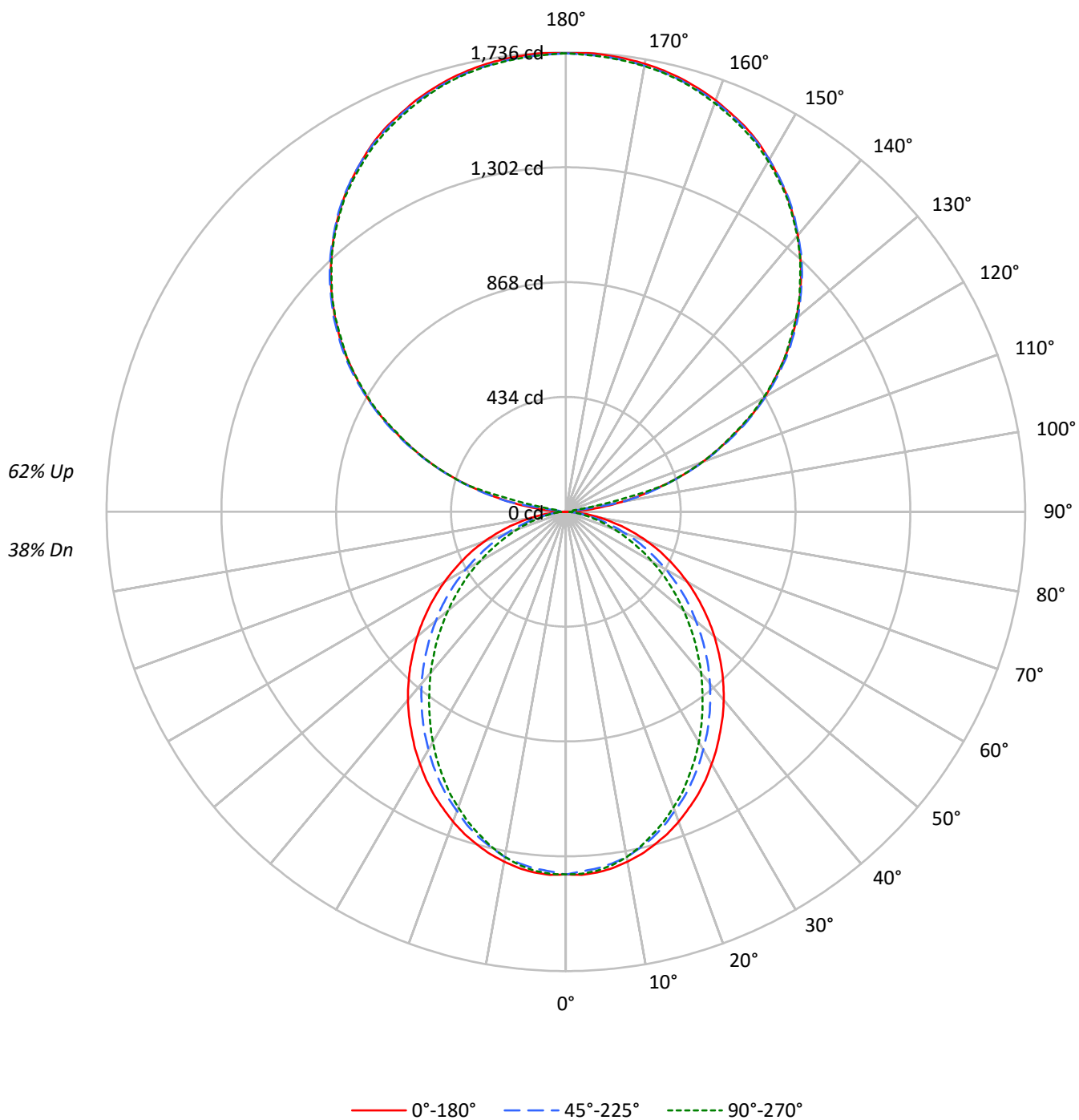
Lumens per Lamp: N/A
Luminaire Lumens: 8562.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1034905

CATALOG NUMBER: S125RDIW-B850D1340UB2750-4F0-XX-W2A-F_2700K

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	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°	8781	8781	8781
5°	8782	8562	8576
10°	8697	8347	8273
15°	8573	8044	7874
20°	8421	7681	7456
25°	8246	7326	7008
30°	8033	6936	6537
35°	7814	6540	6038
40°	7606	6133	5549
45°	7357	5694	5038
50°	7104	5227	4517
55°	6810	4768	3978
60°	6510	4244	3419
65°	6151	3656	2815
70°	5734	2976	2215
75°	5156	2238	1615
80°	4350	1449	1089
85°	3253	778	614

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7357 cd/sqm

TEST NUMBER: P1034905

CATALOG NUMBER: S125RDIW-B850D1340UB2750-4F0-XX-W2A-F_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	1.5
10°-20°	360.5	4.2
20°-30°	522.7	6.1
30°-40°	595.5	7.0
40°-50°	580.4	6.8
50°-60°	488.5	5.7
60°-70°	342.3	4.0
70°-80°	175.5	2.0
80°-90°	46.3	0.5
90°-100°	58.8	0.7
100°-110°	391.0	4.6
110°-120°	704.1	8.2
120°-130°	903.7	10.6
130°-140°	972.0	11.4
140°-150°	912.2	10.7
150°-160°	737.9	8.6
160°-170°	477.2	5.6
170°-180°	164.6	1.9
0°-30°	1012.1	11.8
0°-40°	1607.6	18.8
0°-60°	2676.5	31.3
0°-90°	3240.6	37.8
90°-120°	1153.8	13.5
90°-150°	3941.7	46.0
90°-180°	5321.0	62.1
0°-180°	8562.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1368	1364	1353	1363	1361	130
15°	1301	1295	1273	1272	1263	367
25°	1180	1164	1126	1113	1101	543
35°	1016	992	945	915	901	637
45°	832	802	745	704	688	642
55°	631	598	540	494	477	565
65°	428	392	337	296	280	423
75°	228	197	153	130	123	241
85°	57	38	33	32	31	62
90°	1	12	20	27	31	7
95°	73	69	20	27	27	90
105°	378	383	383	383	381	400
115°	709	715	717	711	704	703
125°	1008	1017	1017	1012	1008	900
135°	1257	1265	1262	1260	1252	969
145°	1458	1460	1460	1461	1454	912
155°	1605	1598	1600	1604	1594	740
165°	1694	1686	1687	1695	1685	478
175°	1732	1725	1726	1736	1725	165
180°	1732	1732	1732	1732	1732	

TEST NUMBER: P1034905

CATALOG NUMBER: S125RDIW-B850D1340UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1370.5	1370.5	1370.5	1370.5	1370.5
2.5°	1373.6	1370.5	1360.1	1370.5	1369.5
5°	1368.4	1364.3	1352.9	1363.3	1361.2
7.5°	1358.1	1353.9	1340.5	1348.8	1346.7
10°	1342.6	1339.4	1325.0	1328.1	1325.0
12.5°	1325.0	1320.8	1300.1	1302.2	1297.0
15°	1301.1	1294.9	1273.2	1272.2	1262.8
17.5°	1276.3	1267.0	1241.1	1235.9	1228.7
20°	1246.3	1235.9	1202.8	1197.6	1188.3
22.5°	1213.2	1202.8	1167.6	1156.2	1149.0
25°	1180.0	1164.5	1126.2	1112.8	1101.4
27.5°	1142.8	1124.1	1083.8	1066.2	1054.8
30°	1101.4	1081.7	1038.2	1014.4	1005.1
32.5°	1061.0	1037.2	992.7	965.8	953.3
35°	1016.5	991.6	945.1	915.0	900.6
37.5°	974.0	944.0	896.4	861.2	846.7
40°	928.5	897.4	847.8	808.4	796.0
42.5°	880.9	848.8	797.0	759.8	740.1
45°	832.2	802.2	745.3	703.9	688.4
47.5°	781.5	750.5	693.5	651.1	633.5
50°	733.9	699.7	640.7	597.3	581.7
52.5°	682.1	646.9	592.1	544.5	528.9
55°	631.4	598.3	540.3	493.8	477.2
57.5°	579.7	544.5	488.6	443.0	428.5
60°	530.0	493.8	437.9	392.3	376.8
62.5°	477.2	443.0	386.1	344.7	329.2
65°	427.5	392.3	337.4	296.0	280.5
67.5°	377.8	342.6	289.8	250.5	238.1
70°	327.1	291.9	240.1	208.1	195.6
72.5°	277.4	243.3	195.6	166.7	159.4
75°	227.7	196.7	153.2	130.4	123.2
77.5°	177.0	152.2	115.9	98.3	92.1
80°	134.6	109.7	80.7	71.4	69.4
82.5°	93.2	71.4	53.8	50.7	49.7
85°	56.9	38.3	33.1	32.1	31.1
87.5°	23.8	16.6	15.5	15.5	14.5
90°	1.3	11.6	20.5	27.0	30.8
92.5°	24.4	12.8	20.5	27.0	28.3
95°	73.2	69.3	20.5	27.0	27.0
97.5°	137.4	145.1	23.1	25.7	27.0
100°	214.5	218.3	223.4	32.1	27.0
102.5°	292.8	297.9	300.5	303.1	195.2
105°	377.5	382.7	382.7	382.7	381.4
107.5°	464.9	464.9	467.4	468.7	463.6
110°	549.6	549.6	552.2	548.3	549.6

TEST NUMBER: P1034905

CATALOG NUMBER: S125RDIW-B850D1340UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	629.2	633.1	634.4	629.2	626.7
115°	708.9	715.3	716.6	711.4	703.7
117.5°	792.3	792.3	797.5	789.8	787.2
120°	869.4	868.1	872.0	869.4	863.0
122.5°	937.4	943.9	945.2	942.6	934.9
125°	1008.1	1017.1	1017.1	1011.9	1008.1
127.5°	1076.1	1082.6	1081.3	1078.7	1068.4
130°	1137.8	1144.2	1145.5	1141.6	1135.2
132.5°	1199.4	1207.1	1203.3	1203.3	1196.9
135°	1257.2	1264.9	1262.3	1259.8	1252.1
137.5°	1311.1	1318.9	1316.3	1316.3	1309.9
140°	1363.8	1366.4	1365.1	1367.6	1359.9
142.5°	1411.3	1412.6	1415.2	1415.2	1407.5
145°	1457.5	1460.1	1460.1	1461.4	1453.7
147.5°	1498.6	1498.6	1499.9	1501.2	1492.2
150°	1537.2	1534.6	1537.2	1539.7	1529.5
152.5°	1574.4	1568.0	1570.5	1573.1	1564.1
155°	1605.2	1597.5	1600.1	1603.9	1593.7
157.5°	1629.6	1625.8	1625.8	1629.6	1619.3
160°	1655.3	1647.6	1648.9	1654.0	1643.7
162.5°	1675.9	1668.1	1669.4	1677.1	1665.6
165°	1693.8	1686.1	1687.4	1695.1	1684.8
167.5°	1708.0	1700.3	1701.5	1710.5	1699.0
170°	1719.5	1710.5	1711.8	1722.1	1710.5
172.5°	1727.2	1718.2	1720.8	1729.8	1718.2
175°	1732.4	1724.7	1725.9	1736.2	1724.7
177.5°	1736.2	1728.5	1729.8	1738.8	1728.5
180°	1732.4	1732.4	1732.4	1732.4	1732.4

(END OF REPORT)