

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: P1036097

Luminaire Tested: S125RDIW-B850D1340UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036097
REPORT IS A COMBINATION OF REPORTS P1006873 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D1340UB35-4F0-XX-W2A-F1
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

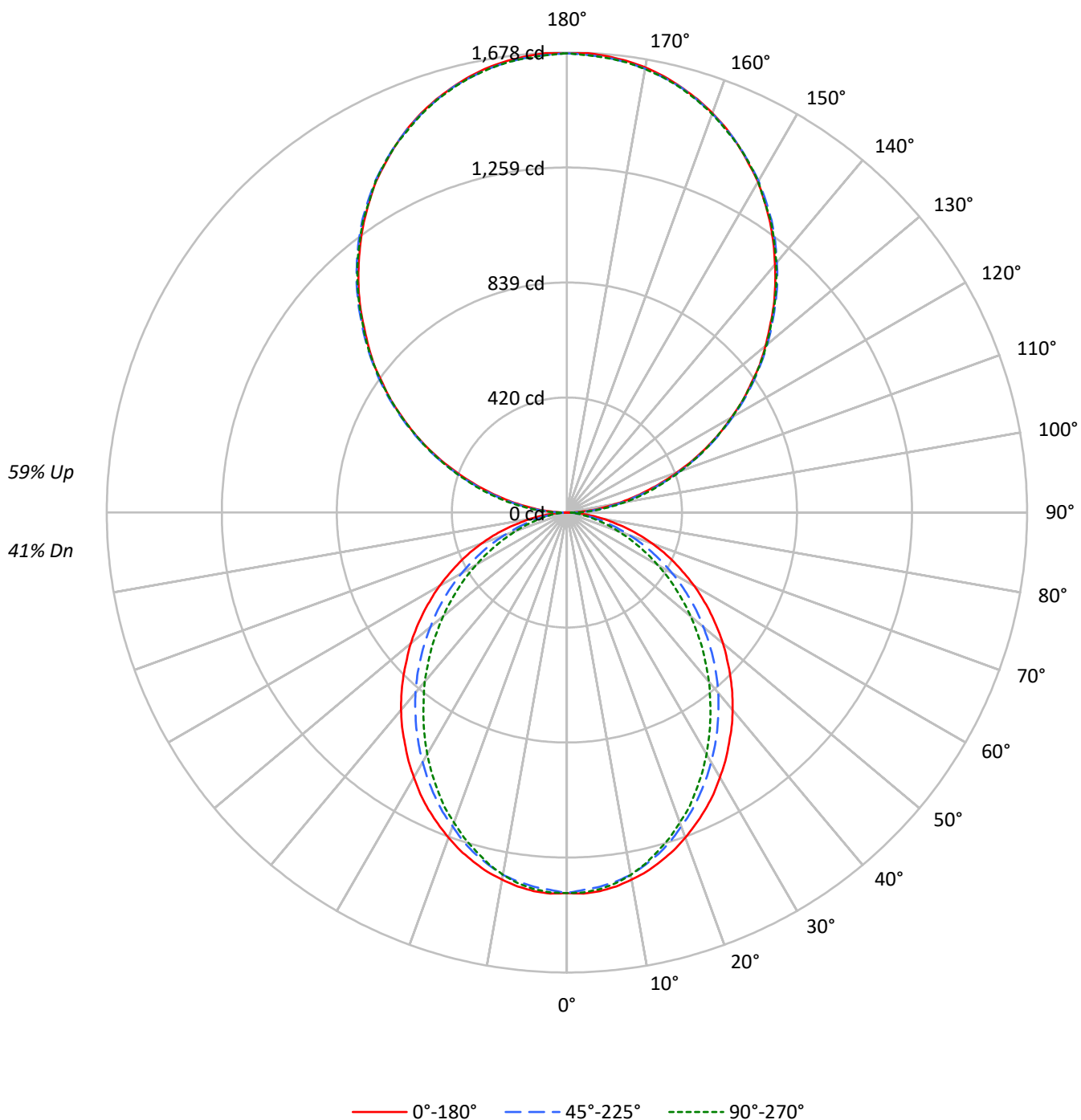
Lumens per Lamp: N/A
Luminaire Lumens: 7957.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1036097

CATALOG NUMBER: S125RDIW-B850D1340UB35-4F0-XX-W2A-F1

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°	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

TEST NUMBER: P1036097

CATALOG NUMBER: S125RDIW-B850D1340UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	1.6
10°-20°	365.1	4.6
20°-30°	529.4	6.7
30°-40°	603.2	7.6
40°-50°	587.9	7.4
50°-60°	494.8	6.2
60°-70°	346.7	4.4
70°-80°	177.7	2.2
80°-90°	46.9	0.6
90°-100°	111.4	1.4
100°-110°	330.9	4.2
110°-120°	561.1	7.1
120°-130°	738.7	9.3
130°-140°	827.8	10.4
140°-150°	811.4	10.2
150°-160°	681.5	8.6
160°-170°	453.0	5.7
170°-180°	158.5	2.0
0°-30°	1025.3	12.9
0°-40°	1628.5	20.5
0°-60°	2711.2	34.1
0°-90°	3282.6	41.3
90°-120°	1003.4	12.6
90°-150°	3381.3	42.5
90°-180°	4674.0	58.7
0°-180°	7957.0	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	9
95°	85	87	100	110	112	89
105°	297	304	312	319	323	317
115°	562	567	570	568	567	556
125°	820	828	829	826	825	735
135°	1066	1074	1075	1075	1070	822
145°	1292	1297	1301	1301	1297	808
155°	1478	1478	1479	1485	1478	681
165°	1607	1604	1606	1611	1603	453
175°	1671	1666	1666	1674	1664	159
180°	1675	1675	1675	1675	1675	

TEST NUMBER: P1036097

CATALOG NUMBER: S125RDIW-B850D1340UB35-4F0-XX-W2A-F1

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	20.9	27.4	31.3
92.5°	39.1	45.6	57.3	66.5	69.1
95°	84.7	87.3	100.4	109.5	112.1
97.5°	130.3	131.6	149.9	157.7	159.0
100°	182.5	182.5	199.4	211.1	213.8
102.5°	238.5	245.0	251.6	264.6	268.5
105°	297.2	303.7	311.5	319.3	323.2
107.5°	361.0	367.6	374.1	378.0	378.0
110°	427.5	434.0	437.9	441.8	440.5

TEST NUMBER: P1036097

CATALOG NUMBER: S125RDIW-B850D1340UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	495.3	497.9	503.1	504.4	501.8
115°	561.8	567.0	569.6	568.3	567.0
117.5°	629.5	630.8	633.4	634.8	629.5
120°	692.1	698.6	699.9	699.9	694.7
122.5°	759.9	761.2	765.1	763.8	759.9
125°	819.8	827.7	829.0	826.4	825.0
127.5°	886.3	890.2	891.5	890.2	887.6
130°	945.0	951.5	954.1	952.8	950.2
132.5°	1003.6	1015.3	1014.0	1012.7	1008.8
135°	1066.2	1074.0	1075.3	1075.3	1070.1
137.5°	1124.8	1132.6	1135.3	1136.6	1130.0
140°	1180.9	1187.4	1191.3	1193.9	1187.4
142.5°	1236.9	1242.1	1247.3	1248.6	1242.1
145°	1291.7	1296.9	1300.8	1300.8	1296.9
147.5°	1342.5	1346.4	1349.0	1352.9	1342.5
150°	1393.3	1392.0	1397.2	1397.2	1394.6
152.5°	1435.0	1437.6	1438.9	1442.9	1437.6
155°	1478.0	1478.0	1479.3	1484.6	1478.0
157.5°	1517.1	1514.5	1515.8	1521.1	1511.9
160°	1551.0	1547.1	1548.4	1553.6	1547.1
162.5°	1581.0	1578.4	1578.4	1584.9	1577.1
165°	1607.1	1604.5	1605.8	1611.0	1603.2
167.5°	1630.5	1625.3	1625.3	1633.1	1625.3
170°	1648.8	1643.6	1643.6	1651.4	1642.3
172.5°	1661.8	1656.6	1656.6	1664.4	1656.6
175°	1670.9	1665.7	1665.7	1673.6	1664.4
177.5°	1677.5	1672.3	1670.9	1678.8	1669.6
180°	1674.9	1674.9	1674.9	1674.9	1674.9

(END OF REPORT)