

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: P1036115

Luminaire Tested: S125RDIW-B850D1560UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036115
REPORT IS A COMBINATION OF REPORTS P1006917 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D1560UB35-4F0-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

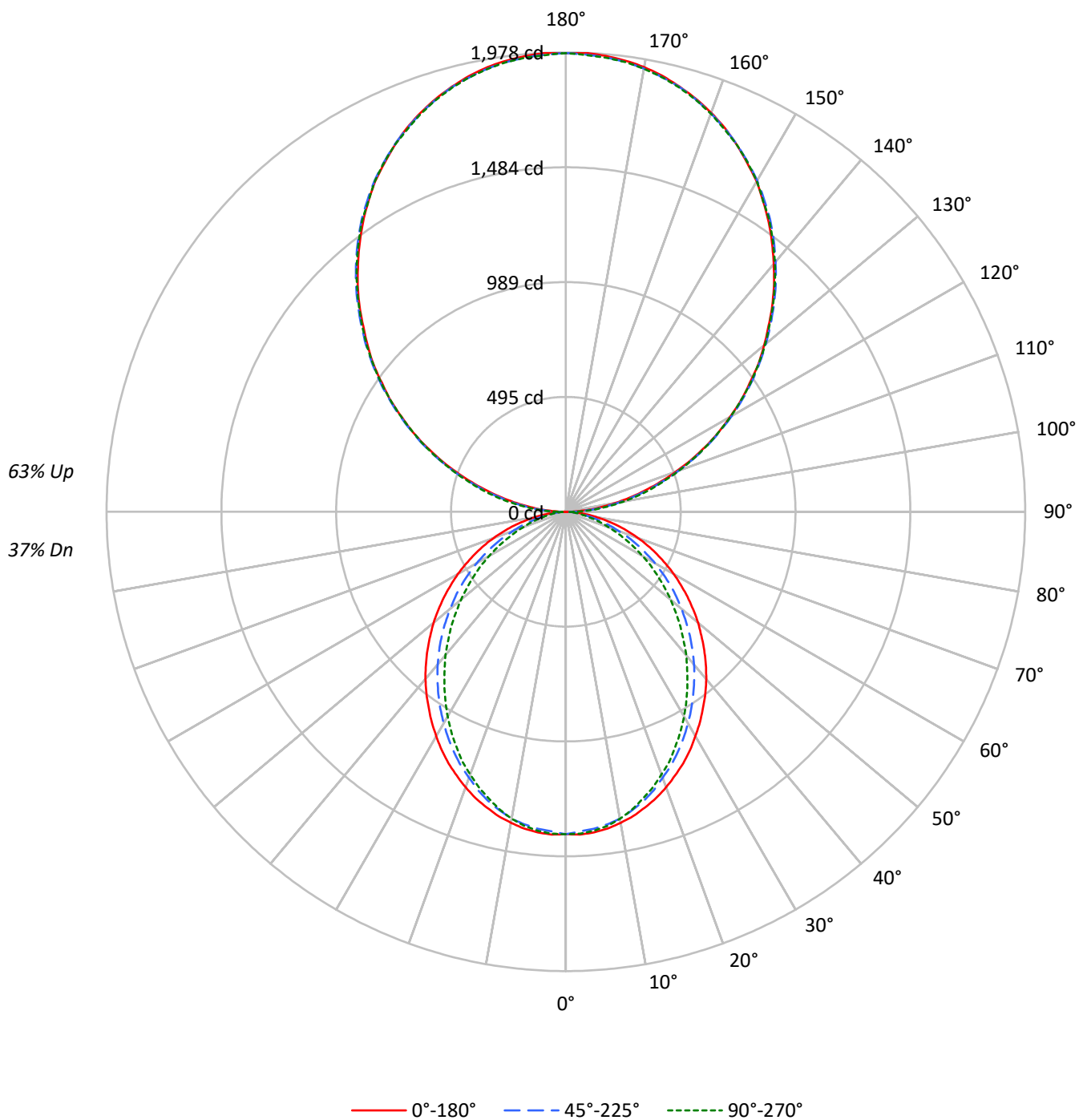
Lumens per Lamp: N/A
Luminaire Lumens: 8795.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 88.1
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: P1036115

CATALOG NUMBER: S125RDIW-B850D1560UB35-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1036115

CATALOG NUMBER: S125RDIW-B850D1560UB35-4F0-XX-W2A-F1

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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	40	39	38
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32
3	79	70	63	57	72	64	58	53	52	48	44	41	38	36	31	29	27
4	72	62	54	49	65	57	50	45	46	41	38	37	33	31	28	26	24
5	66	55	47	42	60	50	44	38	41	36	32	33	29	27	25	23	21
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18
7	57	45	37	31	51	41	34	29	34	29	25	27	23	21	21	18	16
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	17	15
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	18	15	13
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12

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: P1036115

CATALOG NUMBER: S125RDIW-B850D1560UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	1.5
10°-20°	365.1	4.2
20°-30°	529.4	6.0
30°-40°	603.2	6.9
40°-50°	587.9	6.7
50°-60°	494.8	5.6
60°-70°	346.7	3.9
70°-80°	177.7	2.0
80°-90°	47.4	0.5
90°-100°	131.3	1.5
100°-110°	390.1	4.4
110°-120°	661.7	7.5
120°-130°	871.1	9.9
130°-140°	976.1	11.1
140°-150°	956.8	10.9
150°-160°	803.6	9.1
160°-170°	534.2	6.1
170°-180°	186.9	2.1
0°-30°	1025.3	11.7
0°-40°	1628.5	18.5
0°-60°	2711.2	30.8
0°-90°	3283.1	37.3
90°-120°	1183.1	13.5
90°-150°	3987.1	45.3
90°-180°	5512.0	62.7
0°-180°	8795.0	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°	2	14	25	32	37	10
95°	100	103	118	129	132	104
105°	350	358	367	376	381	374
115°	662	669	672	670	669	655
125°	967	976	978	974	973	866
135°	1257	1266	1268	1268	1262	969
145°	1523	1529	1534	1534	1529	952
155°	1743	1743	1744	1751	1743	803
165°	1895	1892	1894	1900	1890	535
175°	1970	1964	1964	1973	1963	187
180°	1975	1975	1975	1975	1975	

TEST NUMBER: P1036115

CATALOG NUMBER: S125RDIW-B850D1560UB35-4F0-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°	1.5	13.8	24.6	32.3	36.9
92.5°	46.1	53.8	67.6	78.4	81.5
95°	99.9	103.0	118.3	129.1	132.2
97.5°	153.7	155.2	176.7	186.0	187.5
100°	215.2	215.2	235.1	249.0	252.1
102.5°	281.3	288.9	296.6	312.0	316.6
105°	350.4	358.1	367.3	376.5	381.2
107.5°	425.7	433.4	441.1	445.7	445.7
110°	504.1	511.8	516.4	521.0	519.5

TEST NUMBER: P1036115

CATALOG NUMBER: S125RDIW-B850D1560UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	584.0	587.1	593.3	594.8	591.7
115°	662.4	668.6	671.6	670.1	668.6
117.5°	742.3	743.9	746.9	748.5	742.3
120°	816.1	823.8	825.3	825.3	819.2
122.5°	896.0	897.6	902.2	900.6	896.0
125°	966.7	975.9	977.5	974.4	972.9
127.5°	1045.1	1049.7	1051.3	1049.7	1046.6
130°	1114.3	1122.0	1125.0	1123.5	1120.4
132.5°	1183.4	1197.3	1195.7	1194.2	1189.6
135°	1257.2	1266.4	1268.0	1268.0	1261.8
137.5°	1326.4	1335.6	1338.7	1340.2	1332.5
140°	1392.5	1400.1	1404.8	1407.8	1400.1
142.5°	1458.5	1464.7	1470.8	1472.4	1464.7
145°	1523.1	1529.2	1533.9	1533.9	1529.2
147.5°	1583.0	1587.6	1590.7	1595.3	1583.0
150°	1643.0	1641.4	1647.6	1647.6	1644.5
152.5°	1692.2	1695.2	1696.8	1701.4	1695.2
155°	1742.9	1742.9	1744.4	1750.6	1742.9
157.5°	1789.0	1785.9	1787.4	1793.6	1782.8
160°	1828.9	1824.3	1825.9	1832.0	1824.3
162.5°	1864.3	1861.2	1861.2	1868.9	1859.7
165°	1895.0	1892.0	1893.5	1899.6	1890.4
167.5°	1922.7	1916.5	1916.5	1925.8	1916.5
170°	1944.2	1938.1	1938.1	1947.3	1936.5
172.5°	1959.6	1953.4	1953.4	1962.7	1953.4
175°	1970.3	1964.2	1964.2	1973.4	1962.7
177.5°	1978.0	1971.9	1970.3	1979.6	1968.8
180°	1974.9	1974.9	1974.9	1974.9	1974.9

(END OF REPORT)