

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: P1034917

Luminaire Tested: S125RDIW-B850D1560UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034917
REPORT IS A COMBINATION OF REPORTS P1006904 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D1560UB2750-4F0-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

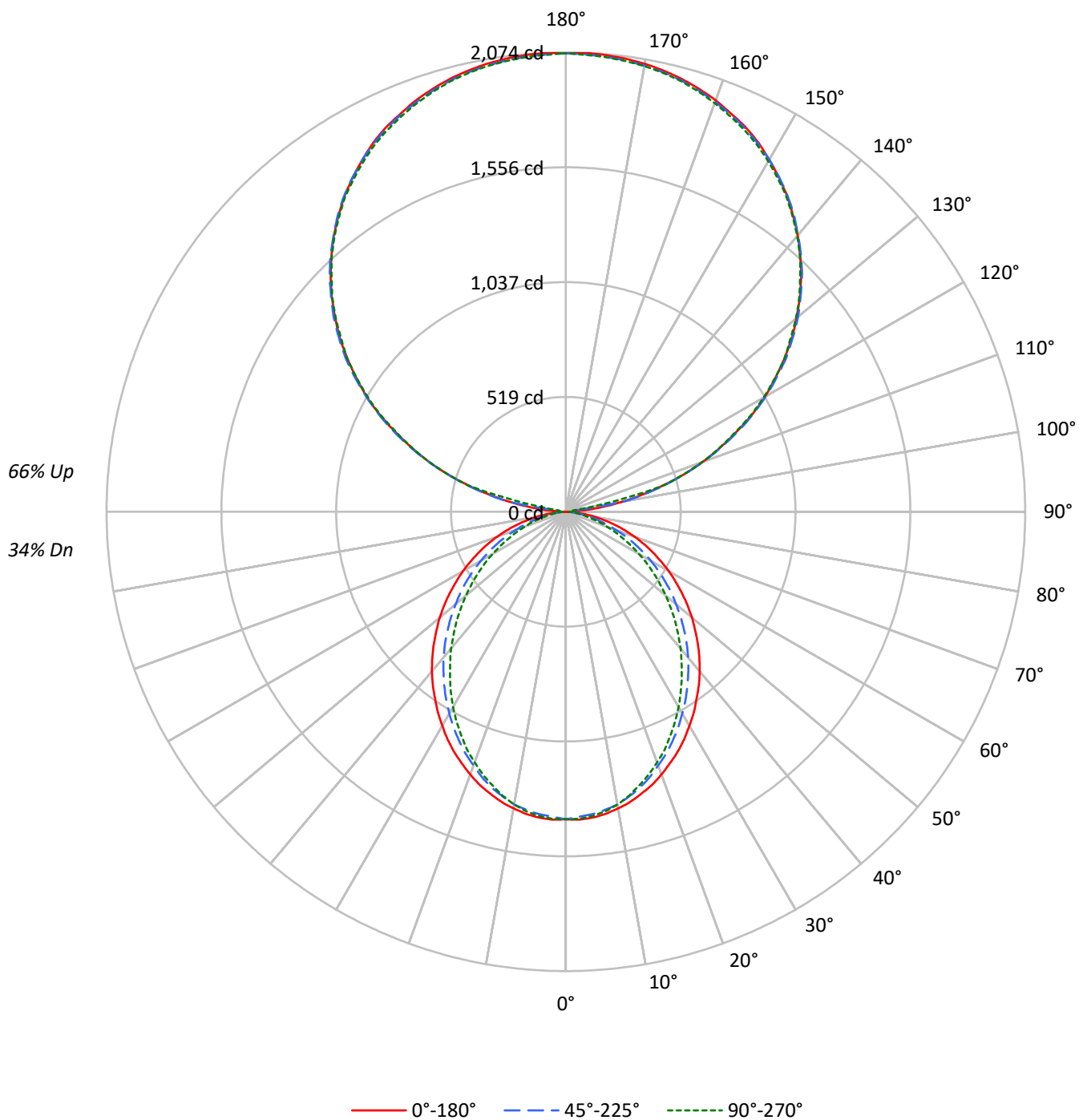
Lumens per Lamp: N/A
Luminaire Lumens: 9640.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	103	103	103	103	93	93	93	93		74	74	74		57	57	57		41	41	41
1	94	90	86	83	85	82	78	76		65	63	61		51	49	48		37	36	35
2	86	79	73	68	77	71	66	62		57	54	51		45	42	40		33	31	30
3	79	69	62	57	71	63	57	52		51	46	43		39	37	34		29	27	26
4	72	61	54	48	65	56	49	44		45	40	37		35	32	29		26	24	22
5	66	55	47	41	59	50	43	38		40	35	32		32	28	25		23	21	19
6	61	49	41	36	55	45	38	33		36	31	27		29	25	22		21	19	17
7	56	44	36	31	50	40	34	29		33	28	24		26	22	20		19	17	15
8	52	40	33	27	47	37	30	25		30	25	21		24	20	17		18	15	14
9	48	36	29	24	44	33	27	23		27	23	19		22	18	16		16	14	12
10	45	33	26	22	41	31	24	20		25	20	17		20	17	14		15	13	11

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	1.4
10°-20°	365.1	3.8
20°-30°	529.4	5.5
30°-40°	603.2	6.3
40°-50°	587.9	6.1
50°-60°	494.8	5.1
60°-70°	346.7	3.6
70°-80°	177.7	1.8
80°-90°	47.4	0.5
90°-100°	70.2	0.7
100°-110°	467.1	4.8
110°-120°	841.1	8.7
120°-130°	1079.6	11.2
130°-140°	1161.1	12.0
140°-150°	1089.7	11.3
150°-160°	881.5	9.1
160°-170°	570.1	5.9
170°-180°	196.6	2.0
0°-30°	1025.3	10.6
0°-40°	1628.5	16.9
0°-60°	2711.2	28.1
0°-90°	3283.1	34.1
90°-120°	1378.3	14.3
90°-150°	4708.7	48.8
90°-180°	6357.0	65.9
0°-180°	9640.0	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	24	32	37	8
95°	87	83	24	32	32	107
105°	451	457	457	457	456	478
115°	847	854	856	850	841	839
125°	1204	1215	1215	1209	1204	1076
135°	1502	1511	1508	1505	1496	1158
145°	1741	1744	1744	1746	1737	1089
155°	1918	1908	1911	1916	1904	884
165°	2023	2014	2016	2025	2013	572
175°	2070	2060	2062	2074	2060	197
180°	2070	2070	2070	2070	2070	

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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°	1.5	13.8	24.5	32.2	36.8
92.5°	29.1	15.3	24.5	32.2	33.7
95°	87.4	82.8	24.5	32.2	32.2
97.5°	164.1	173.3	27.6	30.7	32.2
100°	256.2	260.8	266.9	38.4	32.2
102.5°	349.8	355.9	359.0	362.0	233.2
105°	451.0	457.2	457.2	457.2	455.6
107.5°	555.3	555.3	558.4	559.9	553.8
110°	656.6	656.6	659.6	655.0	656.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	751.7	756.3	757.8	751.7	748.6
115°	846.8	854.5	856.0	849.9	840.7
117.5°	946.5	946.5	952.7	943.5	940.4
120°	1038.6	1037.0	1041.6	1038.6	1030.9
122.5°	1119.9	1127.5	1129.1	1126.0	1116.8
125°	1204.2	1215.0	1215.0	1208.8	1204.2
127.5°	1285.5	1293.2	1291.7	1288.6	1276.3
130°	1359.2	1366.9	1368.4	1363.8	1356.1
132.5°	1432.8	1442.0	1437.4	1437.4	1429.7
135°	1501.9	1511.1	1508.0	1504.9	1495.7
137.5°	1566.3	1575.5	1572.4	1572.4	1564.7
140°	1629.2	1632.2	1630.7	1633.8	1624.6
142.5°	1685.9	1687.5	1690.5	1690.5	1681.3
145°	1741.2	1744.2	1744.2	1745.8	1736.6
147.5°	1790.3	1790.3	1791.8	1793.3	1782.6
150°	1836.3	1833.2	1836.3	1839.3	1827.1
152.5°	1880.8	1873.1	1876.2	1879.2	1868.5
155°	1917.6	1908.4	1911.4	1916.0	1903.8
157.5°	1946.7	1942.1	1942.1	1946.7	1934.5
160°	1977.4	1968.2	1969.7	1975.9	1963.6
162.5°	2002.0	1992.8	1994.3	2003.5	1989.7
165°	2023.4	2014.2	2015.8	2025.0	2012.7
167.5°	2040.3	2031.1	2032.6	2043.4	2029.6
170°	2054.1	2043.4	2044.9	2057.2	2043.4
172.5°	2063.3	2052.6	2055.6	2066.4	2052.6
175°	2069.5	2060.3	2061.8	2074.1	2060.3
177.5°	2074.1	2064.9	2066.4	2077.1	2064.9
180°	2069.5	2069.5	2069.5	2069.5	2069.5

(END OF REPORT)