

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: P1034915

Luminaire Tested: S125RDIW-B850D1560UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034915
REPORT IS A COMBINATION OF REPORTS P1006902 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_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

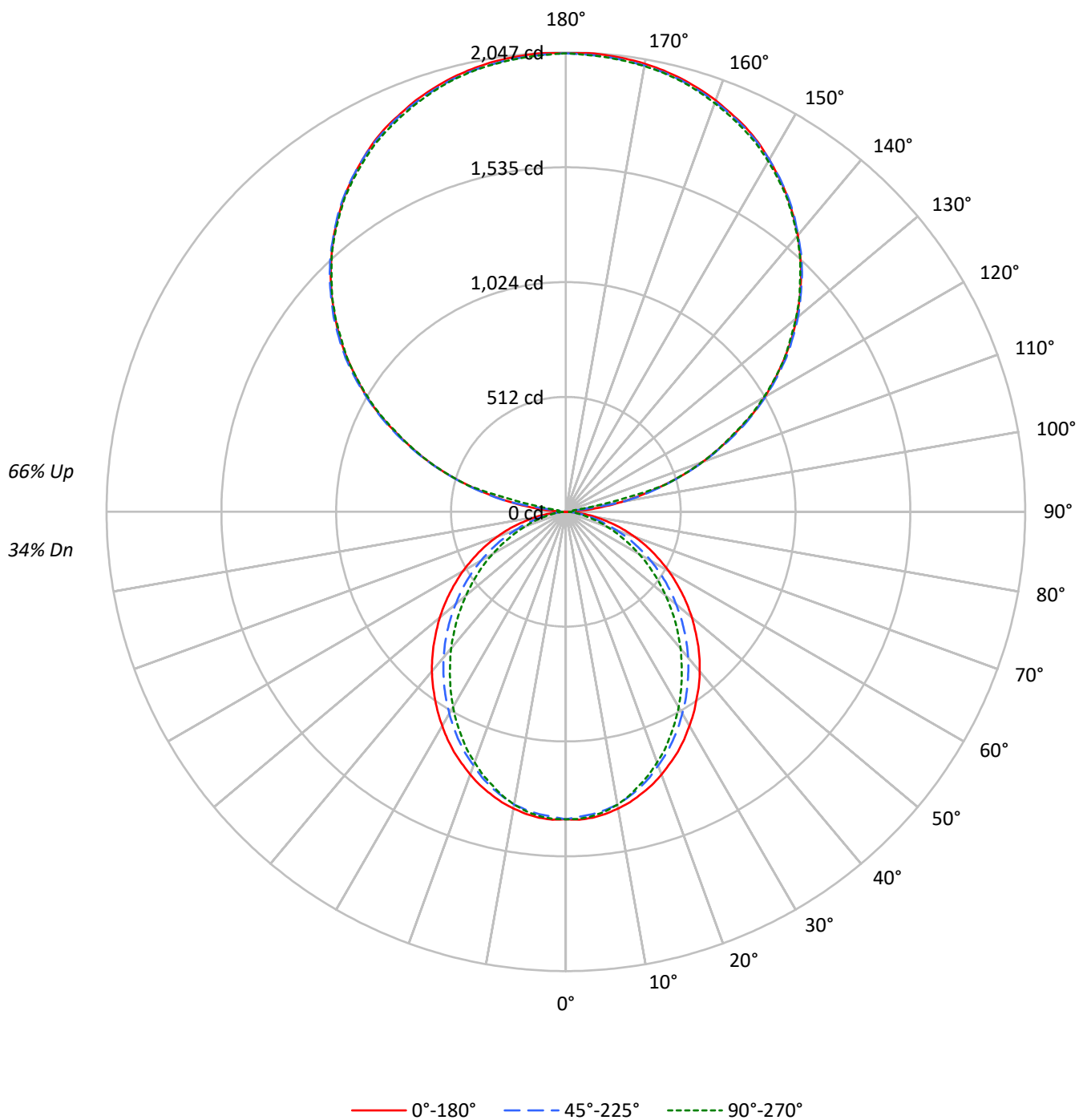
Lumens per Lamp: N/A
Luminaire Lumens: 9516.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	1.4
10°-20°	360.5	3.8
20°-30°	522.7	5.5
30°-40°	595.5	6.3
40°-50°	580.4	6.1
50°-60°	488.5	5.1
60°-70°	342.3	3.6
70°-80°	175.5	1.8
80°-90°	46.8	0.5
90°-100°	69.3	0.7
100°-110°	461.0	4.8
110°-120°	830.2	8.7
120°-130°	1065.6	11.2
130°-140°	1146.1	12.0
140°-150°	1075.7	11.3
150°-160°	870.1	9.1
160°-170°	562.7	5.9
170°-180°	194.1	2.0
0°-30°	1012.1	10.6
0°-40°	1607.6	16.9
0°-60°	2676.5	28.1
0°-90°	3241.0	34.1
90°-120°	1360.6	14.3
90°-150°	4648.1	48.8
90°-180°	6275.0	65.9
0°-180°	9516.0	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°	2	14	24	32	36	8
95°	86	82	24	32	32	106
105°	445	451	451	451	450	472
115°	836	844	845	839	830	829
125°	1189	1199	1199	1193	1189	1062
135°	1482	1492	1488	1486	1476	1143
145°	1719	1722	1722	1723	1714	1075
155°	1893	1884	1887	1891	1879	872
165°	1997	1988	1990	1999	1987	564
175°	2043	2034	2035	2047	2034	195
180°	2043	2043	2043	2043	2043	

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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°	1.5	13.6	24.2	31.8	36.3
92.5°	28.8	15.1	24.2	31.8	33.3
95°	86.3	81.8	24.2	31.8	31.8
97.5°	162.0	171.1	27.3	30.3	31.8
100°	252.9	257.4	263.5	37.9	31.8
102.5°	345.3	351.3	354.3	357.4	230.2
105°	445.2	451.3	451.3	451.3	449.7
107.5°	548.2	548.2	551.2	552.7	546.7
110°	648.1	648.1	651.1	646.6	648.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	742.0	746.5	748.1	742.0	739.0
115°	835.9	843.5	845.0	838.9	829.8
117.5°	934.3	934.3	940.4	931.3	928.3
120°	1025.2	1023.7	1028.2	1025.2	1017.6
122.5°	1105.4	1113.0	1114.5	1111.5	1102.4
125°	1188.7	1199.3	1199.3	1193.3	1188.7
127.5°	1269.0	1276.5	1275.0	1272.0	1259.9
130°	1341.7	1349.2	1350.7	1346.2	1338.6
132.5°	1414.3	1423.4	1418.9	1418.9	1411.3
135°	1482.5	1491.6	1488.5	1485.5	1476.4
137.5°	1546.1	1555.2	1552.1	1552.1	1544.6
140°	1608.2	1611.2	1609.7	1612.7	1603.6
142.5°	1664.2	1665.7	1668.7	1668.7	1659.7
145°	1718.7	1721.7	1721.7	1723.3	1714.2
147.5°	1767.2	1767.2	1768.7	1770.2	1759.6
150°	1812.6	1809.6	1812.6	1815.6	1803.5
152.5°	1856.5	1848.9	1852.0	1855.0	1844.4
155°	1892.9	1883.8	1886.8	1891.3	1879.2
157.5°	1921.6	1917.1	1917.1	1921.6	1909.5
160°	1951.9	1942.8	1944.3	1950.4	1938.3
162.5°	1976.1	1967.1	1968.6	1977.7	1964.0
165°	1997.3	1988.3	1989.8	1998.9	1986.7
167.5°	2014.0	2004.9	2006.4	2017.0	2003.4
170°	2027.6	2017.0	2018.5	2030.7	2017.0
172.5°	2036.7	2026.1	2029.1	2039.7	2026.1
175°	2042.8	2033.7	2035.2	2047.3	2033.7
177.5°	2047.3	2038.2	2039.7	2050.3	2038.2
180°	2042.8	2042.8	2042.8	2042.8	2042.8

(END OF REPORT)