

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: P1036107

Luminaire Tested: S125RDIW-B850D1560UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036107
REPORT IS A COMBINATION OF REPORTS P1006891 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D1560UB27-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

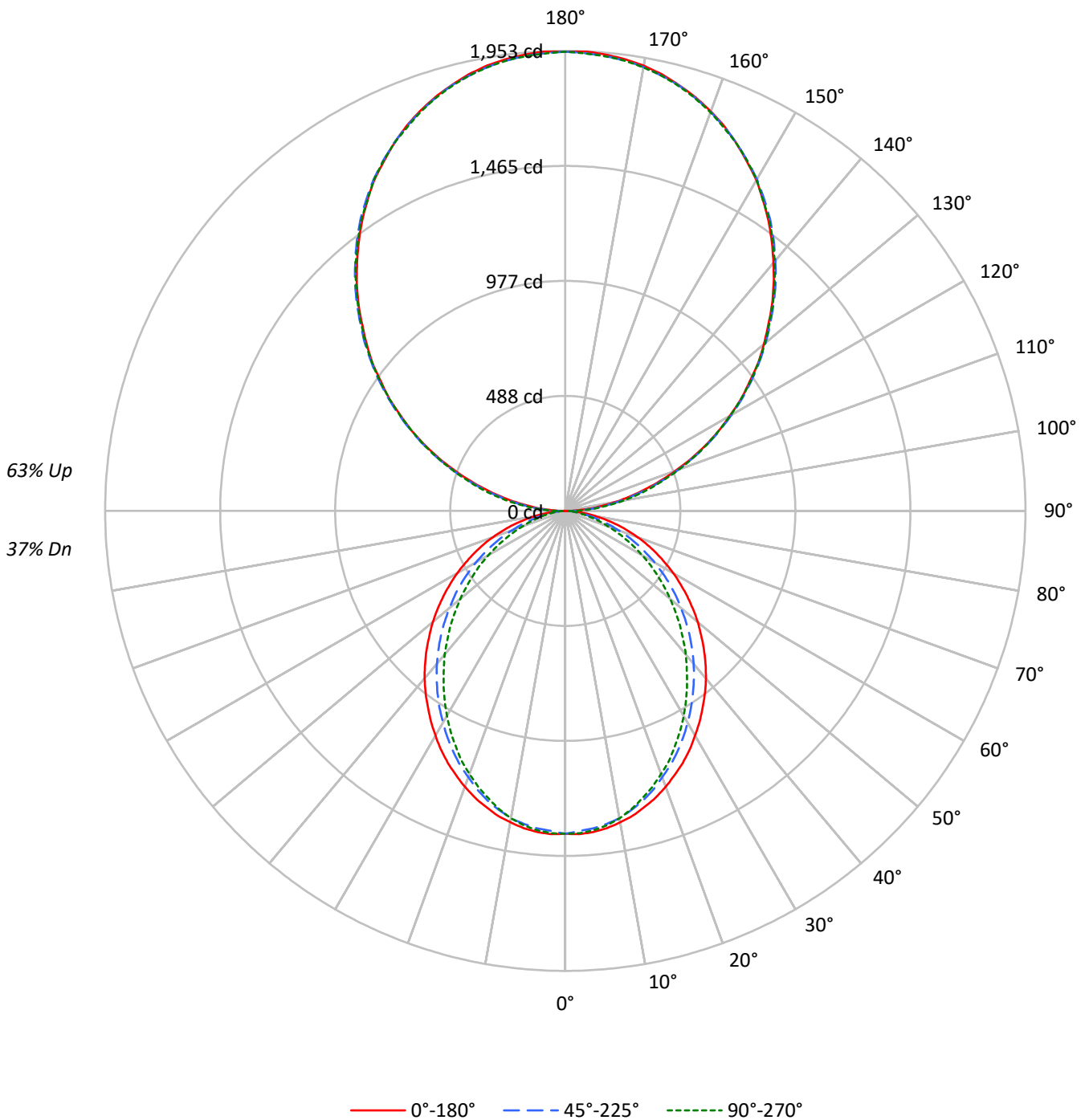
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8682.0 lumens
Efficiency: N/A
Efficacy: 98.5 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				20	
RC	80				70				50				30				10				0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37				37
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	40	39	38	32				32
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27				27
3	79	70	63	57	72	64	58	53	52	48	44	41	38	36	31	29	27	23				23
4	72	62	54	49	65	57	50	45	46	41	38	37	33	31	28	26	24	20				20
5	66	55	47	42	60	50	44	38	41	36	32	33	29	27	25	23	21	17				17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15				15
7	57	45	37	31	51	41	34	29	34	29	25	27	23	21	21	18	16	14				14
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	17	15	12				12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	18	15	13	11				11
10	46	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10				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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	1.5
10°-20°	360.5	4.2
20°-30°	522.7	6.0
30°-40°	595.5	6.9
40°-50°	580.4	6.7
50°-60°	488.5	5.6
60°-70°	342.3	3.9
70°-80°	175.5	2.0
80°-90°	46.8	0.5
90°-100°	129.6	1.5
100°-110°	385.1	4.4
110°-120°	653.2	7.5
120°-130°	859.9	9.9
130°-140°	963.5	11.1
140°-150°	944.4	10.9
150°-160°	793.3	9.1
160°-170°	527.3	6.1
170°-180°	184.5	2.1
0°-30°	1012.1	11.7
0°-40°	1607.6	18.5
0°-60°	2676.5	30.8
0°-90°	3241.0	37.3
90°-120°	1167.9	13.5
90°-150°	3935.8	45.3
90°-180°	5441.0	62.7
0°-180°	8682.0	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	10
95°	99	102	117	127	130	103
105°	346	354	363	372	376	369
115°	654	660	663	662	660	647
125°	954	963	965	962	960	855
135°	1241	1250	1252	1252	1246	957
145°	1504	1510	1514	1514	1510	940
155°	1720	1720	1722	1728	1720	792
165°	1871	1868	1869	1875	1866	528
175°	1945	1939	1939	1948	1937	185
180°	1950	1950	1950	1950	1950	



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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	13.7	24.3	31.9	36.4
92.5°	45.5	53.1	66.8	77.4	80.4
95°	98.6	101.6	116.8	127.4	130.5
97.5°	151.7	153.2	174.5	183.6	185.1
100°	212.4	212.4	232.1	245.8	248.8
102.5°	277.6	285.2	292.8	308.0	312.5
105°	345.9	353.5	362.6	371.7	376.3
107.5°	420.2	427.8	435.4	440.0	440.0
110°	497.6	505.2	509.8	514.3	512.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	576.5	579.5	585.6	587.1	584.1
115°	653.9	660.0	663.0	661.5	660.0
117.5°	732.8	734.3	737.3	738.8	732.8
120°	805.6	813.2	814.7	814.7	808.6
122.5°	884.5	886.0	890.6	889.0	884.5
125°	954.3	963.4	964.9	961.9	960.3
127.5°	1031.7	1036.2	1037.7	1036.2	1033.2
130°	1099.9	1107.5	1110.5	1109.0	1106.0
132.5°	1168.2	1181.9	1180.3	1178.8	1174.3
135°	1241.0	1250.1	1251.6	1251.6	1245.6
137.5°	1309.3	1318.4	1321.4	1322.9	1315.4
140°	1374.5	1382.1	1386.7	1389.7	1382.1
142.5°	1439.8	1445.8	1451.9	1453.4	1445.8
145°	1503.5	1509.6	1514.1	1514.1	1509.6
147.5°	1562.7	1567.2	1570.2	1574.8	1562.7
150°	1621.8	1620.3	1626.4	1626.4	1623.3
152.5°	1670.4	1673.4	1674.9	1679.5	1673.4
155°	1720.4	1720.4	1722.0	1728.0	1720.4
157.5°	1766.0	1762.9	1764.4	1770.5	1759.9
160°	1805.4	1800.8	1802.4	1808.4	1800.8
162.5°	1840.3	1837.3	1837.3	1844.8	1835.7
165°	1870.6	1867.6	1869.1	1875.2	1866.1
167.5°	1897.9	1891.9	1891.9	1901.0	1891.9
170°	1919.2	1913.1	1913.1	1922.2	1911.6
172.5°	1934.4	1928.3	1928.3	1937.4	1928.3
175°	1945.0	1938.9	1938.9	1948.0	1937.4
177.5°	1952.6	1946.5	1945.0	1954.1	1943.5
180°	1949.5	1949.5	1949.5	1949.5	1949.5

(END OF REPORT)