

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: P1036069

Luminaire Tested: S125RDIW-B850D1050UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036069
REPORT IS A COMBINATION OF REPORTS P1006803 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D1050UB27-4F0-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

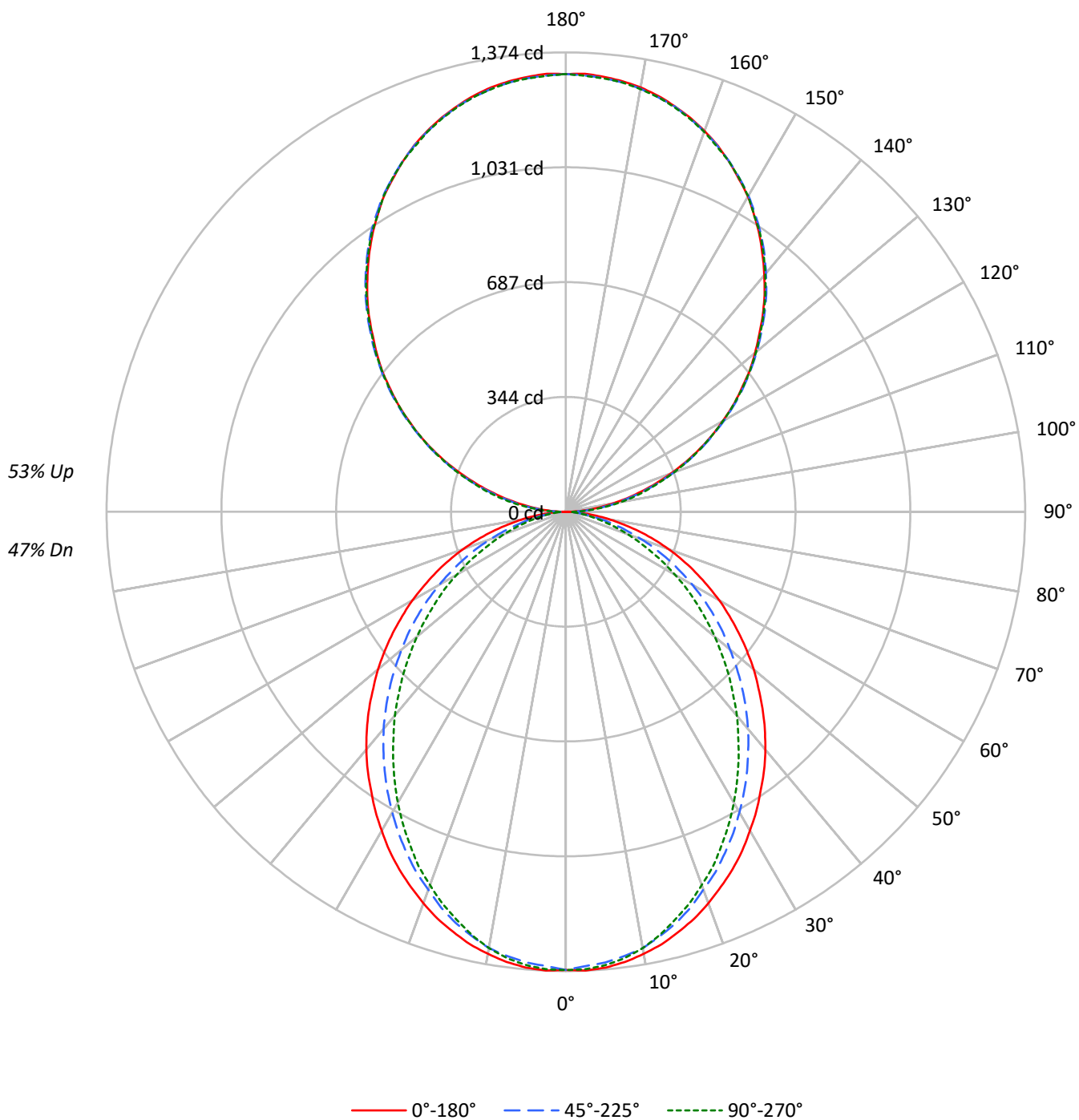
Lumens per Lamp: N/A
Luminaire Lumens: 6894.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.4
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: P1036069

CATALOG NUMBER: S125RDIW-B850D1050UB27-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1036069

CATALOG NUMBER: S125RDIW-B850D1050UB27-4F0-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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53
1	97	93	89	86	89	86	82	80	72	70	67	59	58	56	47	46	45
2	89	82	76	70	81	75	70	66	63	59	56	52	50	47	42	40	39
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	37	35	33
4	74	64	56	50	68	59	52	47	50	45	41	41	38	35	34	31	29
5	68	57	49	43	62	53	46	40	45	39	35	37	33	30	30	27	25
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	24	22
7	58	46	38	33	53	43	36	31	37	31	27	31	26	23	25	22	20
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	21	18	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15

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

TEST NUMBER: P1036069

CATALOG NUMBER: S125RDIW-B850D1050UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	1.9
10°-20°	360.5	5.2
20°-30°	522.7	7.6
30°-40°	595.5	8.6
40°-50°	580.4	8.4
50°-60°	488.5	7.1
60°-70°	342.3	5.0
70°-80°	175.5	2.5
80°-90°	45.8	0.7
90°-100°	87.1	1.3
100°-110°	258.6	3.8
110°-120°	438.6	6.4
120°-130°	577.5	8.4
130°-140°	647.1	9.4
140°-150°	634.3	9.2
150°-160°	532.8	7.7
160°-170°	354.1	5.1
170°-180°	123.9	1.8
0°-30°	1012.1	14.7
0°-40°	1607.6	23.3
0°-60°	2676.5	38.8
0°-90°	3240.0	47.0
90°-120°	784.3	11.4
90°-150°	2643.2	38.3
90°-180°	3654.0	53.0
0°-180°	6894.0	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°	1	9	16	21	24	8
95°	66	68	78	86	88	69
105°	232	237	244	250	253	248
115°	439	443	445	444	443	434
125°	641	647	648	646	645	574
135°	833	840	841	841	836	642
145°	1010	1014	1017	1017	1014	631
155°	1155	1155	1156	1160	1155	532
165°	1256	1254	1255	1259	1253	354
175°	1306	1302	1302	1308	1301	124
180°	1309	1309	1309	1309	1309	

TEST NUMBER: P1036069

CATALOG NUMBER: S125RDIW-B850D1050UB27-4F0-XX-W2A-F1

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°	1.0	9.2	16.3	21.4	24.5
92.5°	30.6	35.7	44.8	52.0	54.0
95°	66.2	68.3	78.5	85.6	87.6
97.5°	101.9	102.9	117.2	123.3	124.3
100°	142.6	142.6	155.9	165.1	167.1
102.5°	186.5	191.5	196.6	206.8	209.9
105°	232.3	237.4	243.5	249.6	252.7
107.5°	282.2	287.3	292.4	295.5	295.5
110°	334.2	339.3	342.3	345.4	344.4

TEST NUMBER: P1036069

CATALOG NUMBER: S125RDIW-B850D1050UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	387.2	389.2	393.3	394.3	392.3
115°	439.1	443.2	445.2	444.2	443.2
117.5°	492.1	493.1	495.2	496.2	492.1
120°	541.0	546.1	547.1	547.1	543.1
122.5°	594.0	595.0	598.1	597.1	594.0
125°	640.9	647.0	648.0	646.0	644.9
127.5°	692.8	695.9	696.9	695.9	693.8
130°	738.7	743.8	745.8	744.8	742.7
132.5°	784.5	793.7	792.7	791.7	788.6
135°	833.4	839.5	840.6	840.6	836.5
137.5°	879.3	885.4	887.4	888.4	883.3
140°	923.1	928.2	931.2	933.3	928.2
142.5°	966.9	971.0	975.0	976.1	971.0
145°	1009.7	1013.8	1016.8	1016.8	1013.8
147.5°	1049.4	1052.5	1054.5	1057.6	1049.4
150°	1089.2	1088.1	1092.2	1092.2	1090.2
152.5°	1121.8	1123.8	1124.8	1127.9	1123.8
155°	1155.4	1155.4	1156.4	1160.5	1155.4
157.5°	1186.0	1183.9	1184.9	1189.0	1181.9
160°	1212.4	1209.4	1210.4	1214.5	1209.4
162.5°	1235.9	1233.8	1233.8	1238.9	1232.8
165°	1256.3	1254.2	1255.2	1259.3	1253.2
167.5°	1274.6	1270.5	1270.5	1276.6	1270.5
170°	1288.9	1284.8	1284.8	1290.9	1283.8
172.5°	1299.0	1295.0	1295.0	1301.1	1295.0
175°	1306.2	1302.1	1302.1	1308.2	1301.1
177.5°	1311.3	1307.2	1306.2	1312.3	1305.2
180°	1309.2	1309.2	1309.2	1309.2	1309.2

(END OF REPORT)