

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: P1036077

Luminaire Tested: S125RDIW-B850D1050UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036077
REPORT IS A COMBINATION OF REPORTS P1006829 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D1050UB35-4F0-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

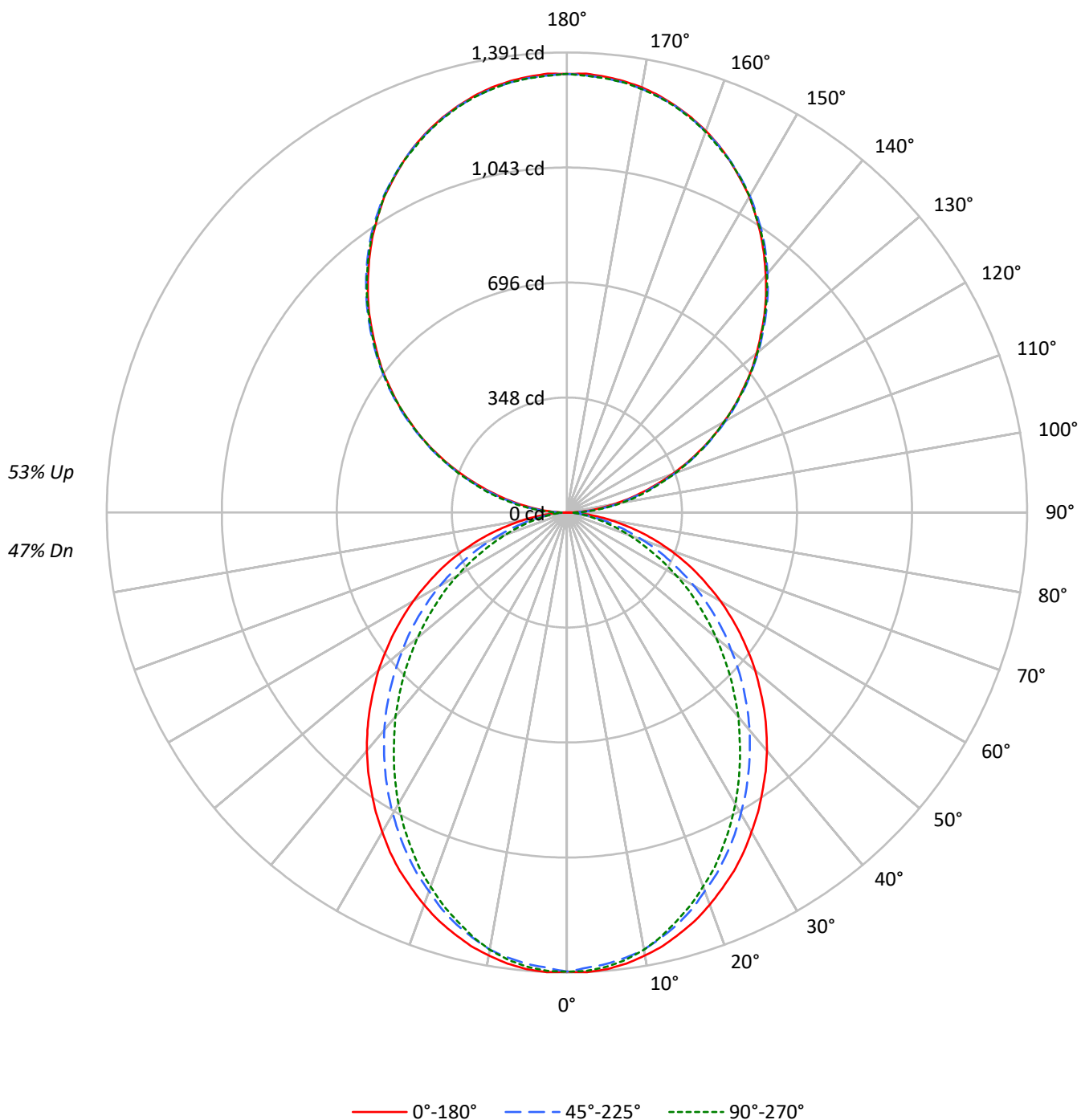
Lumens per Lamp: N/A
Luminaire Lumens: 6983.0 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	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	48	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°	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	1.9
10°-20°	365.1	5.2
20°-30°	529.4	7.6
30°-40°	603.2	8.6
40°-50°	587.9	8.4
50°-60°	494.8	7.1
60°-70°	346.7	5.0
70°-80°	177.7	2.5
80°-90°	46.4	0.7
90°-100°	88.2	1.3
100°-110°	262.0	3.8
110°-120°	444.3	6.4
120°-130°	584.9	8.4
130°-140°	655.4	9.4
140°-150°	642.4	9.2
150°-160°	539.6	7.7
160°-170°	358.7	5.1
170°-180°	125.5	1.8
0°-30°	1025.3	14.7
0°-40°	1628.5	23.3
0°-60°	2711.2	38.8
0°-90°	3282.1	47.0
90°-120°	794.4	11.4
90°-150°	2677.1	38.3
90°-180°	3701.0	53.0
0°-180°	6983.0	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°	1	9	16	22	25	8
95°	67	69	80	87	89	70
105°	235	240	247	253	256	251
115°	445	449	451	450	449	440
125°	649	655	656	654	653	582
135°	844	850	851	851	847	651
145°	1023	1027	1030	1030	1027	639
155°	1170	1170	1171	1175	1170	539
165°	1272	1270	1271	1276	1269	359
175°	1323	1319	1319	1325	1318	126
180°	1326	1326	1326	1326	1326	

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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°	1.0	9.3	16.5	21.7	24.8
92.5°	31.0	36.1	45.4	52.6	54.7
95°	67.1	69.1	79.5	86.7	88.7
97.5°	103.2	104.2	118.7	124.9	125.9
100°	144.5	144.5	157.9	167.2	169.2
102.5°	188.8	194.0	199.2	209.5	212.6
105°	235.3	240.4	246.6	252.8	255.9
107.5°	285.9	291.0	296.2	299.3	299.3
110°	338.5	343.6	346.7	349.8	348.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	392.1	394.2	398.3	399.4	397.3
115°	444.8	448.9	451.0	449.9	448.9
117.5°	498.4	499.5	501.5	502.6	498.4
120°	548.0	553.1	554.2	554.2	550.0
122.5°	601.6	602.7	605.8	604.7	601.6
125°	649.1	655.3	656.3	654.3	653.2
127.5°	701.7	704.8	705.9	704.8	702.8
130°	748.2	753.3	755.4	754.4	752.3
132.5°	794.6	803.9	802.9	801.8	798.7
135°	844.1	850.3	851.4	851.4	847.2
137.5°	890.6	896.8	898.8	899.9	894.7
140°	935.0	940.1	943.2	945.3	940.1
142.5°	979.3	983.5	987.6	988.6	983.5
145°	1022.7	1026.8	1029.9	1029.9	1026.8
147.5°	1062.9	1066.0	1068.1	1071.2	1062.9
150°	1103.2	1102.1	1106.3	1106.3	1104.2
152.5°	1136.2	1138.2	1139.3	1142.4	1138.2
155°	1170.2	1170.2	1171.3	1175.4	1170.2
157.5°	1201.2	1199.1	1200.2	1204.3	1197.1
160°	1228.0	1224.9	1226.0	1230.1	1224.9
162.5°	1251.8	1249.7	1249.7	1254.9	1248.7
165°	1272.4	1270.3	1271.4	1275.5	1269.3
167.5°	1291.0	1286.8	1286.8	1293.0	1286.8
170°	1305.4	1301.3	1301.3	1307.5	1300.3
172.5°	1315.7	1311.6	1311.6	1317.8	1311.6
175°	1323.0	1318.8	1318.8	1325.0	1317.8
177.5°	1328.1	1324.0	1323.0	1329.2	1321.9
180°	1326.1	1326.1	1326.1	1326.1	1326.1

(END OF REPORT)