

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: P1035975

Luminaire Tested: S125RDIW-B610D1050UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

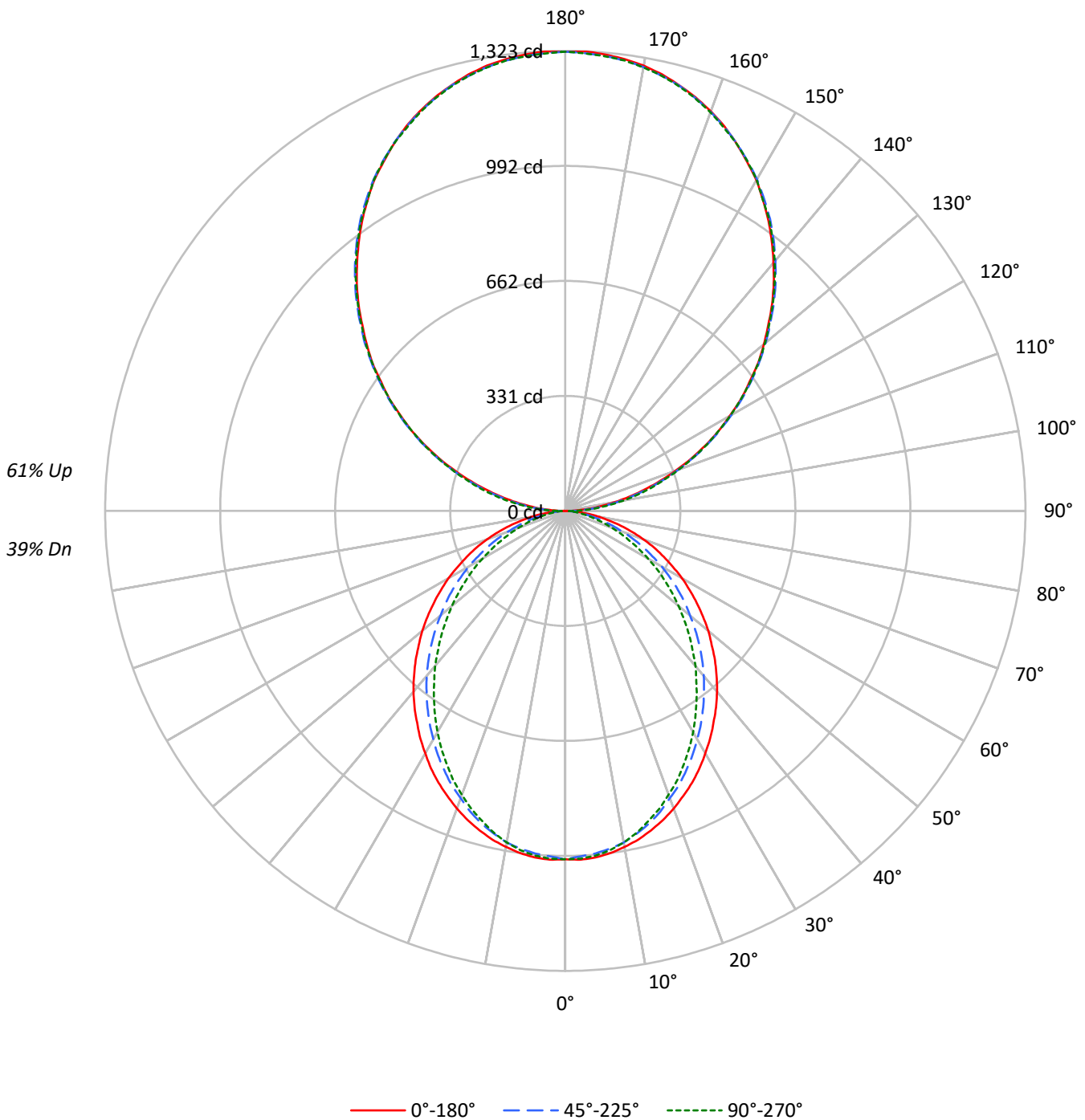
Test Method: LM-79-2019  
Report Number: P1035975  
REPORT IS A COMBINATION OF REPORTS P1006603 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125RDIW-B610D1050UB30-4F0-XX-W2A-F1  
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}  
{m-EER=0.647}  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6055.0 lumens  
Efficiency: N/A  
Efficacy: 109.1 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): 55.5  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39				39
1	96	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33				33
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28				28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	29	24				24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21				21
5	67	55	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18				18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16				16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14				14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13				13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	12				12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	13	10				10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6419	6419	6419
5°	6419	6259	6269
10°	6357	6101	6047
15°	6267	5880	5756
20°	6155	5615	5451
25°	6028	5356	5123
30°	5872	5070	4779
35°	5712	4780	4413
40°	5560	4483	4057
45°	5378	4162	3683
50°	5193	3822	3302
55°	4979	3486	2908
60°	4758	3102	2499
65°	4497	2673	2058
70°	4191	2176	1619
75°	3770	1636	1180
80°	3180	1059	796
85°	2378	569	448

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5378 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.3	1.6
10°-20°	263.5	4.4
20°-30°	382.1	6.3
30°-40°	435.3	7.2
40°-50°	424.3	7.0
50°-60°	357.1	5.9
60°-70°	250.2	4.1
70°-80°	128.3	2.1
80°-90°	34.1	0.6
90°-100°	87.8	1.5
100°-110°	260.9	4.3
110°-120°	442.5	7.3
120°-130°	582.5	9.6
130°-140°	652.7	10.8
140°-150°	639.8	10.6
150°-160°	537.4	8.9
160°-170°	357.2	5.9
170°-180°	125.0	2.1
0°-30°	739.9	12.2
0°-40°	1175.2	19.4
0°-60°	1956.5	32.3
0°-90°	2369.1	39.1
90°-120°	791.2	13.1
90°-150°	2666.2	44.0
90°-180°	3686.0	60.9
0°-180°	6055.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1000	997	989	996	995	95
15°	951	947	931	930	923	268
25°	863	851	823	813	805	397
35°	743	725	691	669	658	465
45°	608	586	545	514	503	469
55°	462	437	395	361	349	413
65°	312	287	247	216	205	309
75°	166	144	112	95	90	176
85°	42	28	24	24	23	46
90°	1	9	16	22	25	7
95°	67	69	79	86	88	70
105°	234	240	246	252	255	250
115°	443	447	449	448	447	438
125°	646	653	654	652	651	579
135°	841	847	848	848	844	648
145°	1018	1023	1026	1026	1023	637
155°	1166	1166	1166	1171	1166	537
165°	1267	1265	1266	1270	1264	358
175°	1318	1314	1314	1320	1312	125
180°	1321	1321	1321	1321	1321	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	1004.1	1001.8	994.3	1001.8	1001.1
5°	1000.3	997.3	989.0	996.5	995.0
7.5°	992.8	989.7	979.9	986.0	984.4
10°	981.4	979.1	968.5	970.8	968.5
12.5°	968.5	965.5	950.4	951.9	948.1
15°	951.1	946.6	930.7	930.0	923.1
17.5°	933.0	926.2	907.3	903.5	898.2
20°	911.0	903.5	879.3	875.5	868.7
22.5°	886.8	879.3	853.5	845.2	839.9
25°	862.6	851.3	823.3	813.4	805.1
27.5°	835.4	821.8	792.2	779.4	771.1
30°	805.1	790.7	758.9	741.5	734.7
32.5°	775.6	758.2	725.7	706.0	696.9
35°	743.1	724.9	690.8	668.9	658.3
37.5°	712.0	690.1	655.3	629.6	619.0
40°	678.7	656.0	619.7	591.0	581.9
42.5°	643.9	620.5	582.6	555.4	541.0
45°	608.4	586.4	544.8	514.5	503.2
47.5°	571.3	548.6	507.0	476.0	463.1
50°	536.5	511.5	468.4	436.6	425.3
52.5°	498.7	472.9	432.8	398.0	386.7
55°	461.6	437.4	395.0	360.9	348.8
57.5°	423.7	398.0	357.2	323.9	313.3
60°	387.4	360.9	320.1	286.8	275.4
62.5°	348.8	323.9	282.2	252.0	240.6
65°	312.5	286.8	246.7	216.4	205.1
67.5°	276.2	250.5	211.9	183.1	174.0
70°	239.1	213.4	175.5	152.1	143.0
72.5°	202.8	177.8	143.0	121.8	116.5
75°	166.5	143.8	112.0	95.3	90.0
77.5°	129.4	111.2	84.7	71.9	67.3
80°	98.4	80.2	59.0	52.2	50.7
82.5°	68.1	52.2	39.3	37.1	36.3
85°	41.6	28.0	24.2	23.5	22.7
87.5°	17.4	12.1	11.4	11.4	10.6
90°	1.0	9.2	16.4	21.6	24.7
92.5°	30.8	36.0	45.2	52.4	54.5
95°	66.8	68.9	79.1	86.3	88.4
97.5°	102.8	103.8	118.2	124.4	125.4
100°	143.9	143.9	157.2	166.5	168.6
102.5°	188.1	193.2	198.4	208.6	211.7
105°	234.3	239.5	245.6	251.8	254.9
107.5°	284.7	289.8	295.0	298.1	298.1
110°	337.1	342.2	345.3	348.4	347.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	390.6	392.6	396.7	397.7	395.7
115°	443.0	447.1	449.1	448.1	447.1
117.5°	496.4	497.4	499.5	500.5	496.4
120°	545.7	550.9	551.9	551.9	547.8
122.5°	599.2	600.2	603.3	602.3	599.2
125°	646.5	652.6	653.7	651.6	650.6
127.5°	698.9	702.0	703.0	702.0	699.9
130°	745.1	750.3	752.3	751.3	749.2
132.5°	791.4	800.6	799.6	798.6	795.5
135°	840.7	846.9	847.9	847.9	843.8
137.5°	887.0	893.1	895.2	896.2	891.1
140°	931.2	936.3	939.4	941.4	936.3
142.5°	975.4	979.5	983.6	984.6	979.5
145°	1018.5	1022.6	1025.7	1025.7	1022.6
147.5°	1058.6	1061.7	1063.7	1066.8	1058.6
150°	1098.7	1097.7	1101.8	1101.8	1099.7
152.5°	1131.6	1133.6	1134.7	1137.7	1133.6
155°	1165.5	1165.5	1166.5	1170.6	1165.5
157.5°	1196.3	1194.3	1195.3	1199.4	1192.2
160°	1223.1	1220.0	1221.0	1225.1	1220.0
162.5°	1246.7	1244.6	1244.6	1249.8	1243.6
165°	1267.2	1265.2	1266.2	1270.3	1264.2
167.5°	1285.7	1281.6	1281.6	1287.8	1281.6
170°	1300.1	1296.0	1296.0	1302.2	1295.0
172.5°	1310.4	1306.3	1306.3	1312.5	1306.3
175°	1317.6	1313.5	1313.5	1319.7	1312.5
177.5°	1322.7	1318.6	1317.6	1323.8	1316.6
180°	1320.7	1320.7	1320.7	1320.7	1320.7

(END OF REPORT)