

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: P1035391

Luminaire Tested: S125DIW-B610D1050UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

**Test Information**

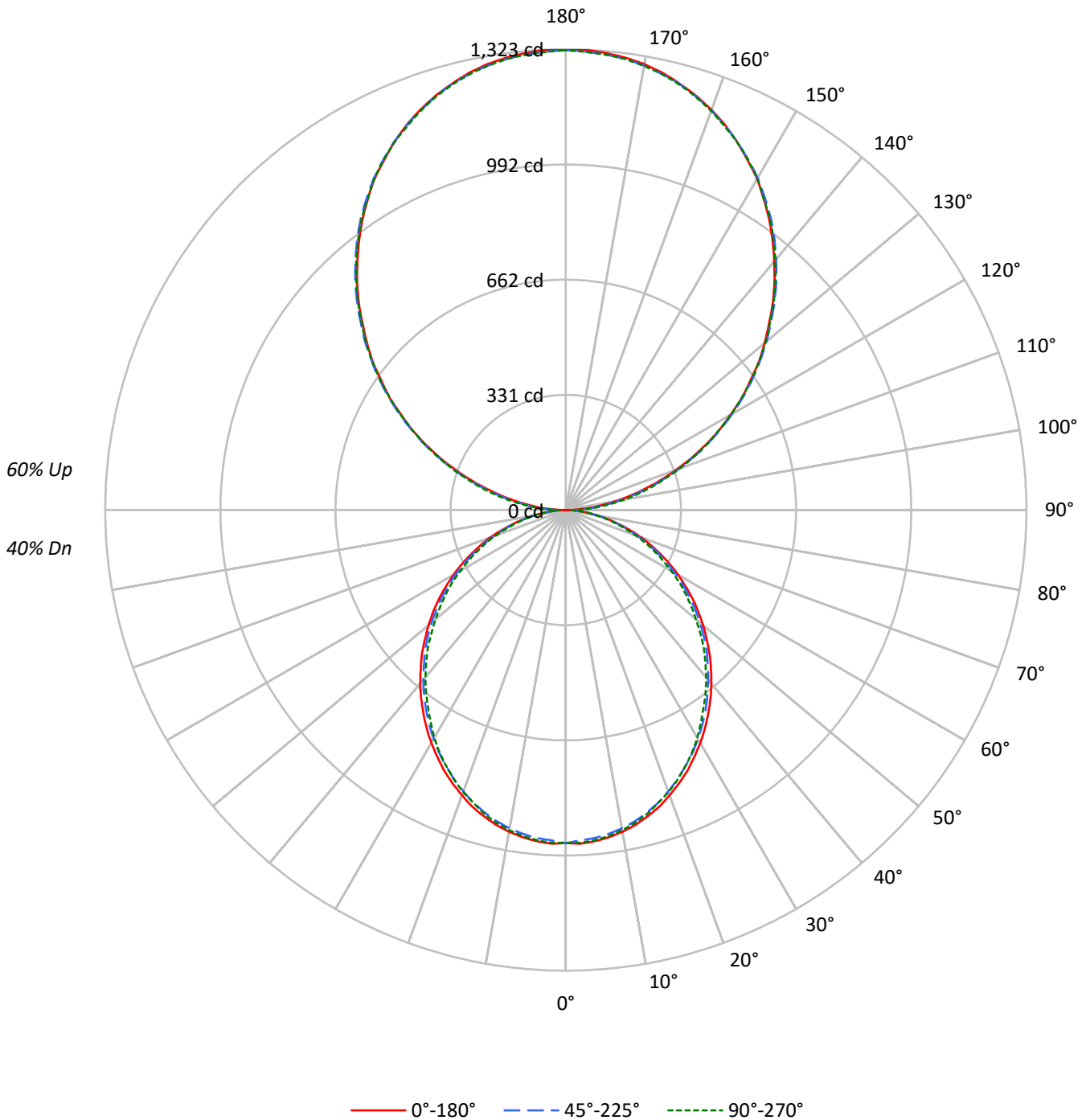
Test Method: LM-79-2019  
Report Number: P1035391  
REPORT IS A COMBINATION OF REPORTS P1003746 AND P1007351  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125DIW-B610D1050UB30-4F0-XX-W2A-F1  
Description: Define 5 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: 6177.0 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3  
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 55.5  
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			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	78	78	78	62	62	62	47	47	47	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	42	41	40	40	40	40	34
2	87	80	74	68	79	73	68	63	60	56	53	48	45	43	37	35	33	33	33	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	28	28	28	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	26	24	24	24	24	21
5	66	55	47	41	60	50	43	38	42	36	32	34	30	27	26	23	21	21	21	21	18
6	61	49	41	36	56	45	38	33	38	32	28	30	26	23	24	21	19	19	19	19	16
7	57	44	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	13	13	13	11
10	45	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	12	12	12	10

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

	0°	45°	90°
0°	6127	6127	6127
5°	6127	5985	5997
10°	6076	5848	5829
15°	5997	5684	5632
20°	5889	5493	5407
25°	5773	5285	5165
30°	5634	5069	4911
35°	5484	4843	4626
40°	5330	4603	4372
45°	5163	4370	4103
50°	4980	4105	3789
55°	4798	3813	3500
60°	4581	3504	3165
65°	4322	3148	2817
70°	4058	2738	2417
75°	3614	2254	1953
80°	3080	1684	1436
85°	2378	997	792

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5163 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.2	1.5
10°-20°	254.9	4.1
20°-30°	376.3	6.1
30°-40°	439.0	7.1
40°-50°	440.9	7.1
50°-60°	387.1	6.3
60°-70°	288.3	4.7
70°-80°	164.6	2.7
80°-90°	49.6	0.8
90°-100°	87.8	1.4
100°-110°	260.9	4.2
110°-120°	442.5	7.2
120°-130°	582.5	9.4
130°-140°	652.7	10.6
140°-150°	639.8	10.4
150°-160°	537.4	8.7
160°-170°	357.2	5.8
170°-180°	125.0	2.0
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0°-30°	721.4	11.7
0°-40°	1160.5	18.8
0°-60°	1988.5	32.2
0°-90°	2491.1	40.3
90°-120°	791.2	12.8
90°-150°	2666.2	43.2
90°-180°	3686.0	59.7
0°-180°	6177.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	955	953	946	952	952	91
15°	910	908	900	903	903	257
25°	826	822	812	814	812	380
35°	713	710	700	696	690	446
45°	584	581	572	563	561	450
55°	445	443	432	425	420	397
65°	300	299	290	284	281	298
75°	160	158	154	152	149	170
85°	42	42	42	42	40	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°	956.3	956.3	956.3	956.3	956.3
2.5°	959.3	957.1	949.5	957.1	956.3
5°	954.8	953.3	945.7	952.5	951.8
7.5°	948.0	946.5	938.1	944.9	944.2
10°	938.1	936.6	928.3	934.4	933.6
12.5°	926.0	923.0	915.4	920.0	920.0
15°	910.1	907.9	899.6	903.3	903.3
17.5°	893.5	889.7	881.4	885.9	882.2
20°	871.6	870.0	860.2	865.5	861.7
22.5°	849.6	846.6	837.5	840.5	838.3
25°	826.2	822.4	812.5	814.1	811.8
27.5°	798.9	796.7	786.8	787.6	785.3
30°	772.5	770.2	758.8	757.3	755.0
32.5°	743.7	739.9	730.1	727.1	722.5
35°	713.4	710.4	699.8	696.0	690.0
37.5°	682.4	678.6	668.8	663.5	659.7
40°	650.6	646.9	636.3	629.5	627.2
42.5°	616.6	613.6	603.0	596.9	593.1
45°	584.1	581.0	572.0	562.9	560.6
47.5°	548.5	549.3	537.9	528.8	523.5
50°	514.5	512.2	503.1	493.3	488.0
52.5°	479.7	478.1	468.3	460.0	453.9
55°	444.9	442.6	432.0	425.2	419.9
57.5°	407.8	407.0	398.0	388.9	386.6
60°	373.0	370.0	361.6	354.1	348.8
62.5°	336.7	334.4	327.6	319.3	315.5
65°	300.4	298.8	290.5	283.7	280.7
67.5°	264.8	261.8	255.7	249.7	248.2
70°	231.5	227.7	220.9	216.4	213.4
72.5°	195.2	192.9	189.1	183.8	180.8
75°	159.6	158.1	154.3	152.1	149.0
77.5°	126.3	125.6	123.3	121.8	119.5
80°	95.3	95.3	93.8	93.1	91.5
82.5°	68.1	66.6	66.6	65.1	65.1
85°	41.6	42.4	42.4	41.6	40.1
87.5°	20.4	20.4	19.7	19.7	18.2
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)