

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: P1035435

Luminaire Tested: S125DIW-B610D1340UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035435
REPORT IS A COMBINATION OF REPORTS P1003838 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1340UB50-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

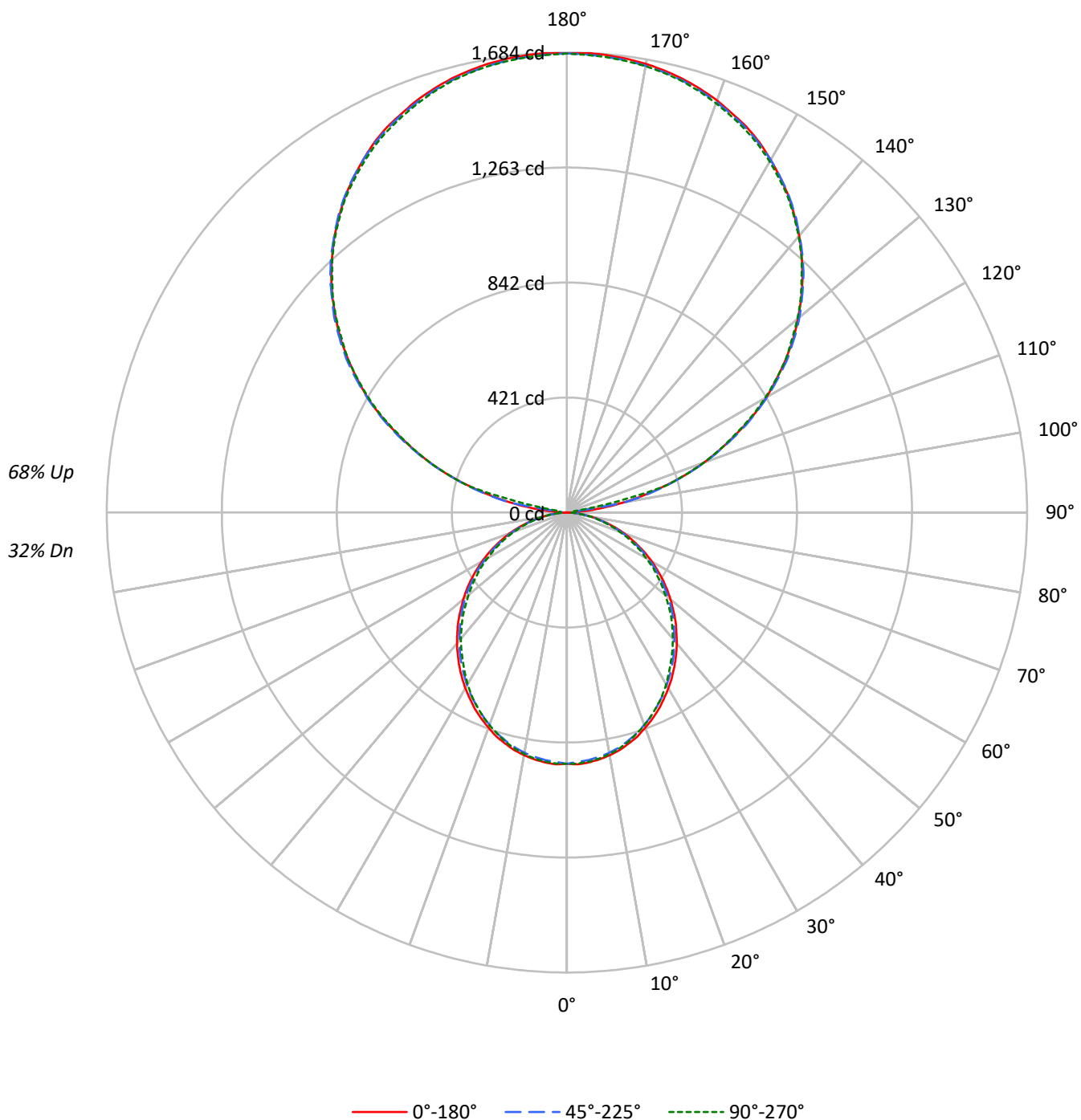
Lumens per Lamp: N/A
Luminaire Lumens: 7558.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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
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	103	103	103	103	92	92	92	92	73	73	73	56	56	56	39	39	39
1	94	89	86	82	84	81	77	74	64	62	60	49	47	46	35	34	33
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28
3	78	69	61	56	70	62	56	51	49	45	41	38	35	32	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12
9	48	36	28	24	43	32	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	19	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5893	5893	5893
5°	5893	5756	5767
10°	5845	5625	5607
15°	5768	5466	5418
20°	5664	5284	5200
25°	5553	5084	4968
30°	5419	4876	4723
35°	5275	4658	4449
40°	5127	4428	4206
45°	4966	4203	3946
50°	4789	3948	3645
55°	4615	3667	3367
60°	4406	3371	3044
65°	4157	3028	2710
70°	3904	2634	2324
75°	3476	2168	1880
80°	2963	1619	1381
85°	2287	959	763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.1
10°-20°	245.2	3.2
20°-30°	361.9	4.8
30°-40°	422.3	5.6
40°-50°	424.1	5.6
50°-60°	372.3	4.9
60°-70°	277.3	3.7
70°-80°	158.4	2.1
80°-90°	48.2	0.6
90°-100°	57.0	0.8
100°-110°	379.2	5.0
110°-120°	682.9	9.0
120°-130°	876.6	11.6
130°-140°	942.8	12.5
140°-150°	884.8	11.7
150°-160°	715.7	9.5
160°-170°	462.9	6.1
170°-180°	159.6	2.1
0°-30°	693.9	9.2
0°-40°	1116.2	14.8
0°-60°	1912.6	25.3
0°-90°	2396.5	31.7
90°-120°	1119.2	14.8
90°-150°	3823.3	50.6
90°-180°	5162.0	68.3
0°-180°	7558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	918	917	910	916	915	87
15°	875	873	865	869	869	247
25°	795	791	782	783	781	366
35°	686	683	673	670	664	429
45°	562	559	550	541	539	433
55°	428	426	416	409	404	382
65°	289	287	279	273	270	287
75°	154	152	148	146	143	163
85°	40	41	41	40	39	44
90°	1	11	20	26	30	6
95°	71	67	20	26	26	87
105°	366	371	371	371	370	388
115°	688	694	695	690	683	682
125°	978	986	986	982	978	873
135°	1219	1227	1224	1222	1214	940
145°	1414	1416	1416	1418	1410	884
155°	1557	1550	1552	1556	1546	717
165°	1643	1636	1637	1644	1634	464
175°	1680	1673	1674	1684	1673	160
180°	1680	1680	1680	1680	1680	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.8	919.8	919.8	919.8	919.8
2.5°	922.7	920.5	913.2	920.5	919.8
5°	918.3	916.9	909.6	916.2	915.4
7.5°	911.8	910.3	902.3	908.9	908.2
10°	902.3	900.9	892.9	898.7	898.0
12.5°	890.7	887.8	880.5	884.9	884.9
15°	875.4	873.2	865.2	868.9	868.9
17.5°	859.4	855.8	847.8	852.1	848.5
20°	838.3	836.8	827.4	832.5	828.8
22.5°	817.2	814.3	805.5	808.5	806.3
25°	794.6	791.0	781.5	783.0	780.8
27.5°	768.4	766.3	756.8	757.5	755.3
30°	743.0	740.8	729.9	728.4	726.2
32.5°	715.3	711.7	702.2	699.3	694.9
35°	686.2	683.3	673.1	669.5	663.6
37.5°	656.4	652.7	643.3	638.2	634.5
40°	625.8	622.2	612.0	605.4	603.3
42.5°	593.1	590.2	580.0	574.1	570.5
45°	561.8	558.9	550.1	541.4	539.2
47.5°	527.6	528.3	517.4	508.7	503.6
50°	494.8	492.6	483.9	474.5	469.4
52.5°	461.4	459.9	450.4	442.4	436.6
55°	427.9	425.7	415.5	409.0	403.9
57.5°	392.2	391.5	382.8	374.0	371.8
60°	358.7	355.8	347.8	340.6	335.5
62.5°	323.8	321.6	315.1	307.1	303.4
65°	288.9	287.4	279.4	272.9	270.0
67.5°	254.7	251.8	246.0	240.1	238.7
70°	222.7	219.0	212.5	208.1	205.2
72.5°	187.7	185.6	181.9	176.8	173.9
75°	153.5	152.1	148.4	146.3	143.4
77.5°	121.5	120.8	118.6	117.2	115.0
80°	91.7	91.7	90.2	89.5	88.0
82.5°	65.5	64.0	64.0	62.6	62.6
85°	40.0	40.8	40.8	40.0	38.6
87.5°	19.6	19.6	18.9	18.9	17.5
90°	1.2	11.2	19.9	26.2	29.9
92.5°	23.7	12.5	19.9	26.2	27.4
95°	71.0	67.3	19.9	26.2	26.2
97.5°	133.3	140.8	22.4	24.9	26.2
100°	208.0	211.7	216.7	31.1	26.2
102.5°	284.0	289.0	291.5	294.0	189.3
105°	366.2	371.2	371.2	371.2	369.9
107.5°	450.9	450.9	453.4	454.6	449.7
110°	533.1	533.1	535.6	531.9	533.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	610.3	614.1	615.3	610.3	607.8
115°	687.6	693.8	695.0	690.1	682.6
117.5°	768.5	768.5	773.5	766.0	763.5
120°	843.3	842.0	845.8	843.3	837.0
122.5°	909.3	915.5	916.8	914.3	906.8
125°	977.8	986.5	986.5	981.5	977.8
127.5°	1043.8	1050.0	1048.8	1046.3	1036.3
130°	1103.6	1109.8	1111.1	1107.3	1101.1
132.5°	1163.4	1170.8	1167.1	1167.1	1160.9
135°	1219.4	1226.9	1224.4	1221.9	1214.4
137.5°	1271.7	1279.2	1276.7	1276.7	1270.5
140°	1322.8	1325.3	1324.1	1326.5	1319.1
142.5°	1368.9	1370.1	1372.6	1372.6	1365.2
145°	1413.7	1416.2	1416.2	1417.5	1410.0
147.5°	1453.6	1453.6	1454.8	1456.1	1447.4
150°	1491.0	1488.5	1491.0	1493.5	1483.5
152.5°	1527.1	1520.9	1523.4	1525.8	1517.1
155°	1557.0	1549.5	1552.0	1555.7	1545.8
157.5°	1580.6	1576.9	1576.9	1580.6	1570.7
160°	1605.6	1598.1	1599.3	1604.3	1594.3
162.5°	1625.5	1618.0	1619.3	1626.7	1615.5
165°	1642.9	1635.5	1636.7	1644.2	1634.2
167.5°	1656.6	1649.2	1650.4	1659.1	1647.9
170°	1667.8	1659.1	1660.4	1670.3	1659.1
172.5°	1675.3	1666.6	1669.1	1677.8	1666.6
175°	1680.3	1672.8	1674.1	1684.0	1672.8
177.5°	1684.0	1676.6	1677.8	1686.5	1676.6
180°	1680.3	1680.3	1680.3	1680.3	1680.3

(END OF REPORT)