

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: P1035446

Luminaire Tested: S125DIW-B610D1560UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035446
REPORT IS A COMBINATION OF REPORTS P1003875 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1560UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

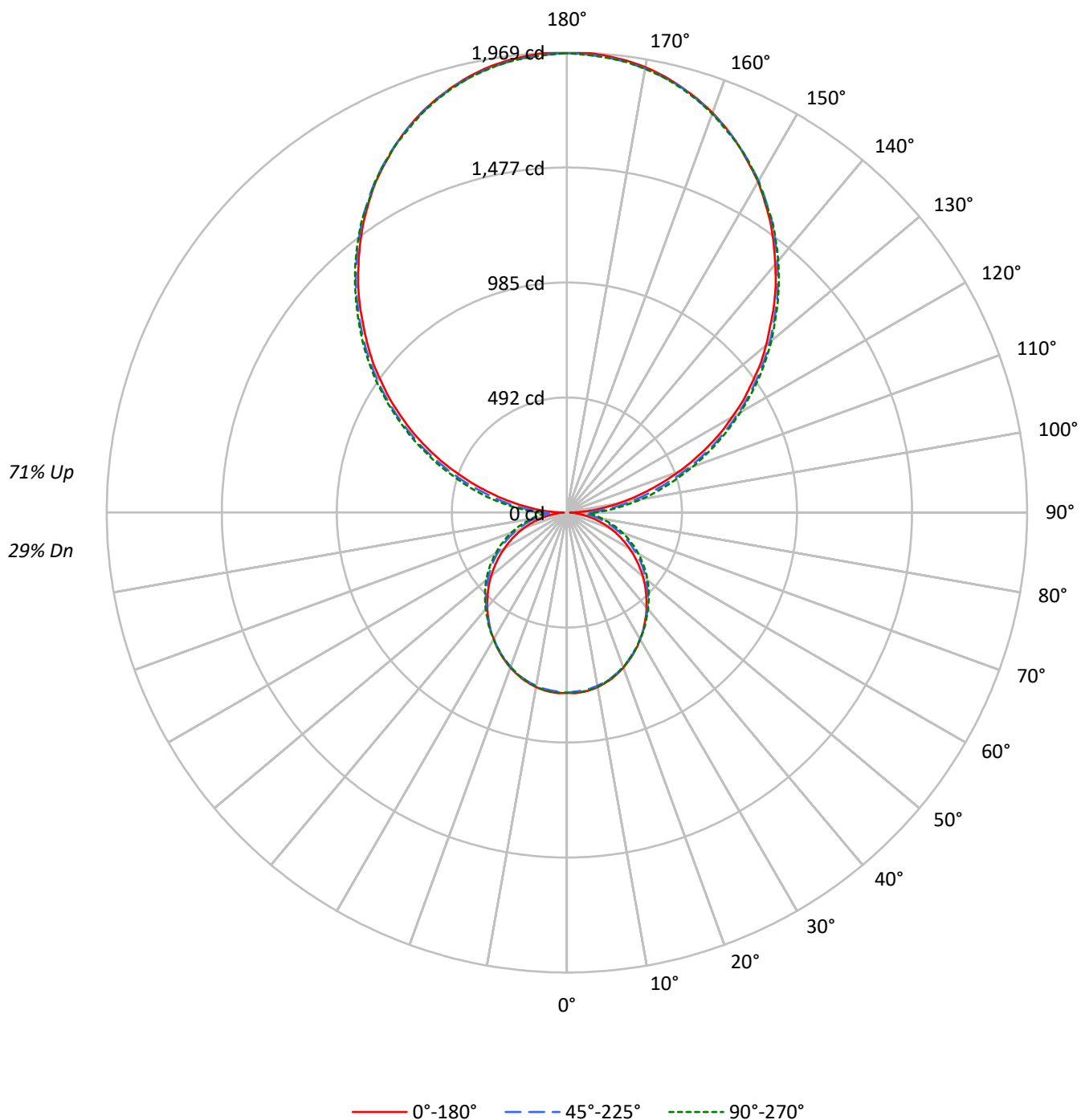
Lumens per Lamp: N/A
Luminaire Lumens: 7882.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 76.2
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	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36			29
1	93	88	84	81	83	79	76	73	62	60	58	46	45	43	31	31	30			23
2	84	77	71	66	75	69	64	59	54	50	47	40	38	36	27	26	25			19
3	77	67	60	54	68	60	54	49	47	43	39	35	32	30	24	22	21			16
4	70	59	52	46	62	53	47	41	42	37	33	31	28	26	21	19	18			14
5	64	53	45	39	57	47	40	35	37	32	29	28	25	22	19	17	15			12
6	59	47	39	33	52	42	35	30	33	28	25	25	22	19	17	15	14			10
7	54	42	35	29	48	38	31	27	30	25	22	23	19	17	16	14	12			9
8	50	38	31	25	45	34	28	23	27	23	19	21	17	15	15	12	11			8
9	47	35	27	23	42	31	25	21	25	20	17	19	16	13	13	11	10			7
10	43	32	25	20	39	29	23	18	23	18	15	18	14	12	12	10	9			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4945	4945	4945
5°	4953	4841	4853
10°	4916	4743	4730
15°	4856	4628	4577
20°	4776	4489	4425
25°	4680	4342	4242
30°	4564	4181	4075
35°	4455	4032	3921
40°	4345	3876	3767
45°	4221	3740	3627
50°	4102	3593	3502
55°	3958	3453	3356
60°	3801	3293	3206
65°	3636	3124	3038
70°	3448	2898	2862
75°	3152	2675	2648
80°	2763	2404	2411
85°	2378	2189	2288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	0.9
10°-20°	207.3	2.6
20°-30°	308.3	3.9
30°-40°	365.1	4.6
40°-50°	377.5	4.8
50°-60°	347.7	4.4
60°-70°	281.1	3.6
70°-80°	188.1	2.4
80°-90°	100.3	1.3
90°-100°	185.5	2.4
100°-110°	428.8	5.4
110°-120°	685.8	8.7
120°-130°	882.6	11.2
130°-140°	978.6	12.4
140°-150°	953.9	12.1
150°-160°	800.2	10.2
160°-170°	531.9	6.7
170°-180°	186.1	2.4
0°-30°	588.7	7.5
0°-40°	953.8	12.1
0°-60°	1679.1	21.3
0°-90°	2248.6	28.5
90°-120°	1300.1	16.5
90°-150°	4115.2	52.2
90°-180°	5633.0	71.5
0°-180°	7882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	770	765	771	770	73
15°	737	738	732	737	734	208
25°	670	672	667	670	667	308
35°	580	585	583	585	585	363
45°	478	486	490	495	496	368
55°	367	379	391	400	403	328
65°	253	270	288	300	303	251
75°	139	159	183	198	202	148
85°	42	67	93	110	116	43
90°	14	50	86	112	122	15
95°	109	132	173	200	209	112
105°	356	375	407	432	442	379
115°	664	676	698	710	713	657
125°	966	974	991	1000	1002	865
135°	1253	1262	1268	1278	1276	966
145°	1517	1523	1527	1531	1529	948
155°	1735	1735	1737	1743	1735	799
165°	1887	1884	1885	1891	1882	532
175°	1962	1956	1956	1965	1954	186
180°	1966	1966	1966	1966	1966	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.8	771.8	771.8	771.8	771.8
2.5°	774.1	772.6	767.3	772.6	771.8
5°	771.8	770.3	765.0	771.1	770.3
7.5°	766.5	765.8	760.5	765.8	765.0
10°	759.0	759.0	752.9	758.2	757.5
12.5°	748.4	749.1	744.6	748.4	746.1
15°	737.0	737.8	732.5	737.0	734.0
17.5°	722.6	724.2	718.9	722.6	720.4
20°	706.8	708.3	703.0	705.2	705.2
22.5°	688.6	691.6	685.6	688.6	686.3
25°	669.7	671.9	667.4	670.4	666.7
27.5°	649.2	652.3	647.0	649.2	647.7
30°	625.8	630.3	625.8	627.3	626.5
32.5°	604.6	608.4	605.4	606.9	606.1
35°	579.6	584.9	582.7	584.9	584.9
37.5°	555.4	560.0	559.2	562.2	561.5
40°	530.4	536.5	535.7	538.8	540.3
42.5°	503.2	511.5	513.8	517.6	517.6
45°	477.5	485.8	489.6	494.9	495.6
47.5°	451.0	458.6	464.6	472.2	473.7
50°	423.8	432.1	440.4	448.7	451.0
52.5°	395.0	405.6	416.2	425.3	426.8
55°	367.0	379.1	391.2	399.5	402.6
57.5°	338.2	352.6	366.2	375.3	377.6
60°	309.5	324.6	339.8	351.1	353.4
62.5°	281.5	296.6	313.3	326.1	329.2
65°	252.7	270.1	288.3	299.7	302.7
67.5°	226.3	242.9	261.1	274.7	278.5
70°	196.7	214.1	233.8	248.2	252.7
72.5°	168.0	186.1	208.1	224.0	227.0
75°	139.2	158.9	183.1	198.3	202.0
77.5°	111.2	133.9	156.6	173.3	176.3
80°	85.5	108.2	133.9	150.6	153.6
82.5°	62.0	86.3	112.7	128.6	134.7
85°	41.6	66.6	93.1	109.7	115.8
87.5°	26.5	50.7	76.4	93.8	99.1
90°	13.6	50.1	86.5	111.6	121.5
92.5°	56.5	86.1	126.3	153.7	162.1
95°	109.3	132.0	173.0	200.4	208.8
97.5°	162.1	181.8	228.2	253.3	260.1
100°	222.5	238.4	282.5	312.2	319.9
102.5°	287.6	309.6	340.7	371.1	380.3
105°	355.7	375.4	407.3	431.7	441.5
107.5°	430.0	448.1	477.8	497.5	502.1
110°	507.2	524.0	549.8	568.7	572.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	586.8	596.7	623.2	638.4	640.6
115°	664.0	675.5	698.2	710.3	713.4
117.5°	742.9	748.2	770.2	784.5	783.7
120°	816.4	826.3	845.2	858.0	856.5
122.5°	895.1	897.5	918.6	929.2	929.2
125°	965.5	974.0	990.6	999.7	1001.9
127.5°	1042.9	1046.7	1061.1	1070.9	1072.4
130°	1111.7	1118.6	1132.2	1141.3	1142.0
132.5°	1179.8	1193.6	1199.6	1208.7	1207.1
135°	1253.2	1261.7	1268.5	1278.3	1276.0
137.5°	1322.1	1330.6	1336.6	1347.3	1342.6
140°	1387.2	1394.8	1400.1	1411.5	1406.9
142.5°	1453.0	1458.3	1464.4	1472.8	1468.1
145°	1517.3	1522.6	1527.2	1531.0	1529.4
147.5°	1576.1	1580.7	1583.8	1589.9	1579.1
150°	1635.8	1634.3	1640.4	1640.4	1638.2
152.5°	1684.8	1687.9	1689.4	1694.0	1687.9
155°	1735.3	1735.3	1736.8	1742.9	1735.3
157.5°	1781.2	1778.1	1779.7	1785.8	1775.1
160°	1821.0	1816.4	1817.9	1824.0	1816.4
162.5°	1856.2	1853.1	1853.1	1860.8	1851.6
165°	1886.8	1883.7	1885.3	1891.4	1882.2
167.5°	1914.3	1908.2	1908.2	1917.4	1908.2
170°	1935.8	1929.6	1929.6	1938.8	1928.1
172.5°	1951.1	1944.9	1944.9	1954.1	1944.9
175°	1961.8	1955.6	1955.6	1964.8	1954.1
177.5°	1969.4	1963.3	1961.8	1970.9	1960.2
180°	1966.4	1966.4	1966.4	1966.4	1966.4

(END OF REPORT)