

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: P1034583

Luminaire Tested: S125DIW-B610D1560UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034583
REPORT IS A COMBINATION OF REPORTS P1003870 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1560UB2750-4F0-XX-W2A-F_5000K
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

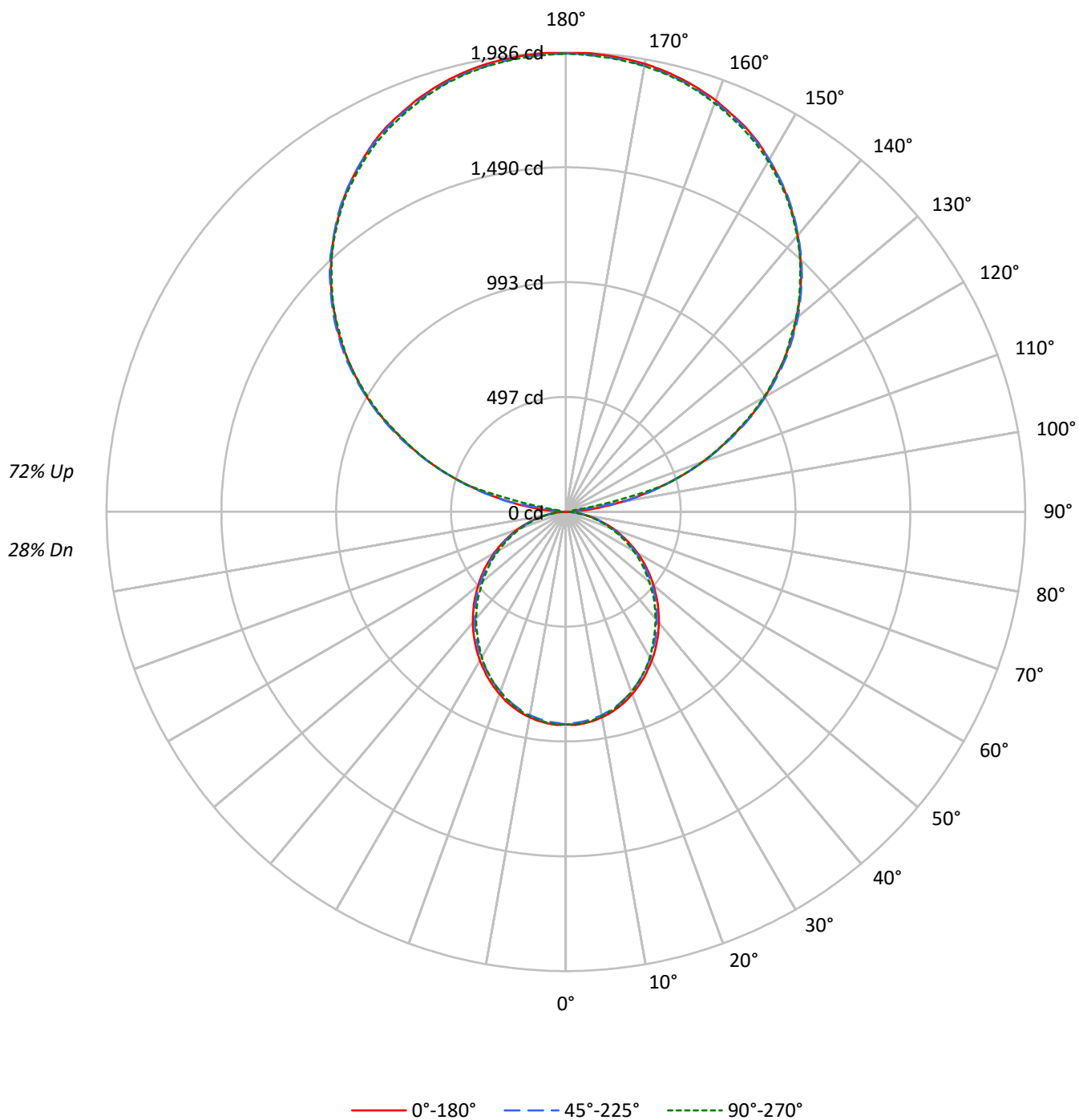
Lumens per Lamp: N/A
Luminaire Lumens: 8483.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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			0
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	28		
1	93	89	85	82	83	79	76	73	62	60	58	46	45	44	32	31	30	24		
2	85	77	71	66	75	69	64	60	54	51	48	41	39	37	28	27	26	20		
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17		
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19	14		
5	64	53	45	40	57	48	41	36	38	33	29	29	25	23	20	18	16	12		
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11		
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10		
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9		
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8		
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7		

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	1.0
10°-20°	245.2	2.9
20°-30°	361.9	4.3
30°-40°	422.3	5.0
40°-50°	424.1	5.0
50°-60°	372.3	4.4
60°-70°	277.3	3.3
70°-80°	158.4	1.9
80°-90°	48.7	0.6
90°-100°	67.2	0.8
100°-110°	447.2	5.3
110°-120°	805.2	9.5
120°-130°	1033.6	12.2
130°-140°	1111.6	13.1
140°-150°	1043.3	12.3
150°-160°	843.9	9.9
160°-170°	545.8	6.4
170°-180°	188.2	2.2
0°-30°	693.9	8.2
0°-40°	1116.2	13.2
0°-60°	1912.6	22.5
0°-90°	2396.9	28.3
90°-120°	1319.6	15.6
90°-150°	4508.1	53.1
90°-180°	6086.0	71.7
0°-180°	8483.0	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°	2	13	24	31	35	7
95°	84	79	24	31	31	103
105°	432	438	438	438	436	457
115°	811	818	820	814	805	804
125°	1153	1163	1163	1157	1153	1030
135°	1438	1447	1444	1441	1432	1109
145°	1667	1670	1670	1671	1663	1043
155°	1836	1827	1830	1834	1823	846
165°	1937	1928	1930	1939	1927	547
175°	1981	1972	1974	1986	1972	189
180°	1981	1981	1981	1981	1981	

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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°	1.5	13.2	23.5	30.8	35.2
92.5°	27.9	14.7	23.5	30.8	32.3
95°	83.7	79.3	23.5	30.8	30.8
97.5°	157.2	166.0	26.4	29.4	30.8
100°	245.3	249.7	255.6	36.7	30.8
102.5°	334.9	340.7	343.7	346.6	223.2
105°	431.8	437.7	437.7	437.7	436.2
107.5°	531.7	531.7	534.6	536.1	530.2
110°	628.6	628.6	631.5	627.1	628.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	719.7	724.1	725.5	719.7	716.7
115°	810.7	818.1	819.5	813.7	804.8
117.5°	906.2	906.2	912.1	903.3	900.3
120°	994.3	992.8	997.2	994.3	987.0
122.5°	1072.2	1079.5	1081.0	1078.0	1069.2
125°	1152.9	1163.2	1163.2	1157.3	1152.9
127.5°	1230.8	1238.1	1236.6	1233.7	1222.0
130°	1301.3	1308.6	1310.1	1305.7	1298.3
132.5°	1371.8	1380.6	1376.2	1376.2	1368.8
135°	1437.9	1446.7	1443.7	1440.8	1432.0
137.5°	1499.5	1508.4	1505.4	1505.4	1498.1
140°	1559.8	1562.7	1561.2	1564.2	1555.4
142.5°	1614.1	1615.6	1618.5	1618.5	1609.7
145°	1667.0	1669.9	1669.9	1671.4	1662.6
147.5°	1714.0	1714.0	1715.4	1716.9	1706.6
150°	1758.0	1755.1	1758.0	1761.0	1749.2
152.5°	1800.6	1793.3	1796.2	1799.2	1788.9
155°	1835.9	1827.1	1830.0	1834.4	1822.7
157.5°	1863.8	1859.4	1859.4	1863.8	1852.0
160°	1893.2	1884.3	1885.8	1891.7	1879.9
162.5°	1916.7	1907.8	1909.3	1918.1	1904.9
165°	1937.2	1928.4	1929.9	1938.7	1926.9
167.5°	1953.4	1944.6	1946.0	1956.3	1943.1
170°	1966.6	1956.3	1957.8	1969.5	1956.3
172.5°	1975.4	1965.1	1968.1	1978.3	1965.1
175°	1981.3	1972.5	1973.9	1985.7	1972.5
177.5°	1985.7	1976.9	1978.3	1988.6	1976.9
180°	1981.3	1981.3	1981.3	1981.3	1981.3

(END OF REPORT)