

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: P1035451

Luminaire Tested: S125DIW-B610D1560UB35-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035451
REPORT IS A COMBINATION OF REPORTS P1003883 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1560UB35-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

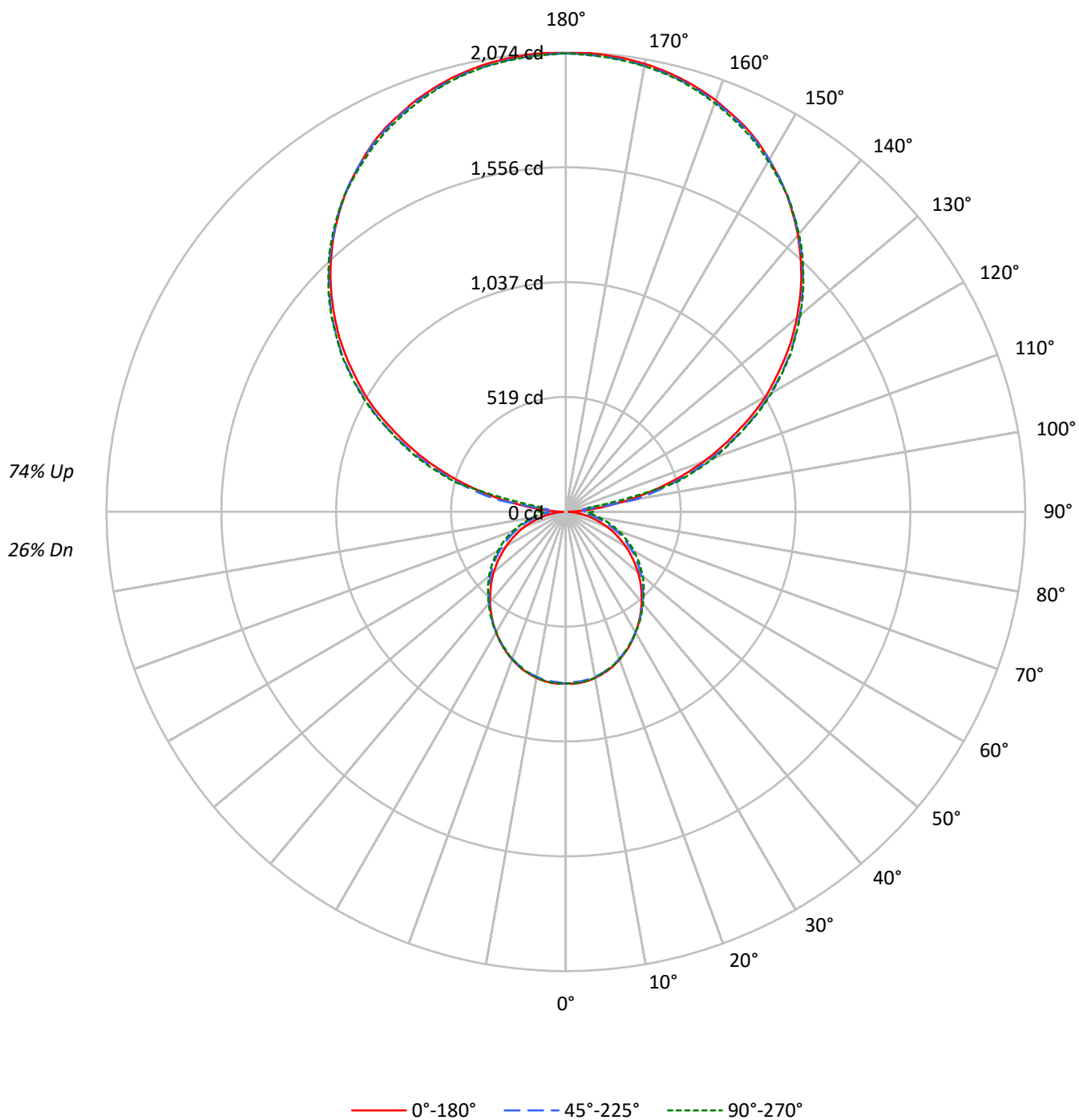
Lumens per Lamp: N/A
Luminaire Lumens: 8761.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34
1	92	88	84	80	82	78	75	72	60	58	56	44	43	42	29	28	28
2	84	76	70	65	74	68	63	59	53	49	46	39	36	34	26	24	23
3	76	67	60	54	67	60	54	49	46	42	39	34	31	29	22	21	19
4	69	59	51	45	62	53	46	41	41	36	33	30	27	25	20	18	17
5	64	52	44	39	56	47	40	35	37	32	28	27	24	21	18	16	14
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	11	10
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	12	10	9
10	43	31	24	20	38	28	22	18	22	18	15	17	14	11	12	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4974	4862	4873
10°	4936	4763	4749
15°	4876	4647	4596
20°	4795	4508	4444
25°	4699	4360	4259
30°	4583	4198	4092
35°	4475	4049	3938
40°	4364	3892	3782
45°	4239	3756	3642
50°	4119	3608	3517
55°	3974	3467	3369
60°	3817	3307	3220
65°	3652	3137	3050
70°	3464	2911	2874
75°	3165	2687	2660
80°	2776	2415	2422
85°	2390	2199	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4239 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	0.8
10°-20°	208.2	2.4
20°-30°	309.6	3.5
30°-40°	366.7	4.2
40°-50°	379.1	4.3
50°-60°	349.2	4.0
60°-70°	282.3	3.2
70°-80°	188.9	2.2
80°-90°	100.7	1.1
90°-100°	125.2	1.4
100°-110°	507.6	5.8
110°-120°	868.2	9.9
120°-130°	1094.9	12.5
130°-140°	1167.8	13.3
140°-150°	1091.1	12.5
150°-160°	881.5	10.1
160°-170°	570.1	6.5
170°-180°	196.6	2.2
0°-30°	591.2	6.7
0°-40°	957.8	10.9
0°-60°	1686.1	19.2
0°-90°	2258.0	25.8
90°-120°	1501.0	17.1
90°-150°	4854.9	55.4
90°-180°	6503.0	74.2
0°-180°	8761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	774	74
15°	740	741	736	740	737	209
25°	672	675	670	673	669	310
35°	582	587	585	587	587	364
45°	480	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	301	304	252
75°	140	160	184	199	203	148
85°	42	67	94	110	116	44
90°	14	50	87	112	122	13
95°	97	112	80	104	110	115
105°	458	476	499	514	518	485
115°	851	864	886	893	889	844
125°	1207	1217	1232	1238	1238	1078
135°	1503	1512	1514	1521	1516	1159
145°	1742	1744	1744	1750	1743	1089
155°	1918	1908	1911	1916	1904	884
165°	2023	2014	2016	2025	2013	572
175°	2070	2060	2062	2074	2060	197
180°	2070	2070	2070	2070	2070	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	777.3	775.8	770.5	775.8	775.1
5°	775.1	773.5	768.2	774.3	773.5
7.5°	769.7	769.0	763.7	769.0	768.2
10°	762.1	762.1	756.1	761.4	760.6
12.5°	751.5	752.3	747.7	751.5	749.2
15°	740.1	740.9	735.5	740.1	737.1
17.5°	725.7	727.2	721.9	725.7	723.4
20°	709.7	711.2	705.9	708.2	708.2
22.5°	691.5	694.5	688.4	691.5	689.2
25°	672.5	674.8	670.2	673.2	669.4
27.5°	652.0	655.0	649.7	652.0	650.4
30°	628.4	633.0	628.4	629.9	629.2
32.5°	607.1	610.9	607.9	609.4	608.6
35°	582.1	587.4	585.1	587.4	587.4
37.5°	557.7	562.3	561.5	564.6	563.8
40°	532.7	538.7	538.0	541.0	542.5
42.5°	505.3	513.7	515.9	519.7	519.7
45°	479.5	487.8	491.6	497.0	497.7
47.5°	452.9	460.5	466.6	474.2	475.7
50°	425.5	433.9	442.2	450.6	452.9
52.5°	396.6	407.3	417.9	427.0	428.6
55°	368.5	380.7	392.8	401.2	404.2
57.5°	339.7	354.1	367.8	376.9	379.2
60°	310.8	326.0	341.2	352.6	354.9
62.5°	282.7	297.9	314.6	327.5	330.5
65°	253.8	271.3	289.5	300.9	303.9
67.5°	227.2	243.9	262.2	275.8	279.6
70°	197.6	215.0	234.8	249.2	253.8
72.5°	168.7	186.9	209.0	224.9	228.0
75°	139.8	159.6	183.9	199.1	202.9
77.5°	111.7	134.5	157.3	174.0	177.0
80°	85.9	108.7	134.5	151.2	154.3
82.5°	62.3	86.6	113.2	129.2	135.3
85°	41.8	66.9	93.5	110.2	116.3
87.5°	26.6	50.9	76.7	94.2	99.5
90°	13.7	50.3	86.8	112.0	121.9
92.5°	39.7	48.0	83.8	108.2	115.0
95°	97.3	112.4	80.0	104.4	109.7
97.5°	173.2	200.7	80.0	99.1	105.9
100°	264.6	285.1	315.5	103.0	101.3
102.5°	357.4	377.9	404.6	422.8	298.5
105°	457.8	476.2	499.0	514.2	517.9
107.5°	561.4	572.0	597.2	613.9	612.3
110°	661.9	671.0	695.3	705.2	712.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	757.0	768.5	790.5	798.1	800.3
115°	851.4	864.4	885.6	893.2	888.6
117.5°	950.3	954.1	979.3	983.0	985.2
120°	1042.4	1043.1	1065.2	1075.1	1071.9
122.5°	1122.9	1131.3	1149.6	1158.7	1154.0
125°	1207.2	1217.3	1232.5	1238.4	1237.6
127.5°	1287.8	1294.7	1306.1	1314.4	1306.7
130°	1361.5	1368.4	1380.6	1386.6	1382.7
132.5°	1434.3	1443.5	1446.5	1457.2	1452.5
135°	1503.4	1511.9	1514.1	1520.9	1515.5
137.5°	1567.8	1576.3	1576.2	1585.3	1580.7
140°	1630.0	1633.0	1632.2	1643.7	1637.5
142.5°	1686.7	1687.5	1690.5	1697.3	1691.2
145°	1742.0	1744.2	1744.2	1749.6	1743.4
147.5°	1790.3	1790.3	1791.8	1794.8	1785.6
150°	1836.3	1833.2	1836.3	1839.3	1827.9
152.5°	1880.8	1873.1	1876.2	1879.2	1868.5
155°	1917.6	1908.4	1911.4	1916.0	1903.8
157.5°	1946.7	1942.1	1942.1	1946.7	1934.5
160°	1977.4	1968.2	1969.7	1975.9	1963.6
162.5°	2002.0	1992.8	1994.3	2003.5	1989.7
165°	2023.4	2014.2	2015.8	2025.0	2012.7
167.5°	2040.3	2031.1	2032.6	2043.4	2029.6
170°	2054.1	2043.4	2044.9	2057.2	2043.4
172.5°	2063.3	2052.6	2055.6	2066.4	2052.6
175°	2069.5	2060.3	2061.8	2074.1	2060.3
177.5°	2074.1	2064.9	2066.4	2077.1	2064.9
180°	2069.5	2069.5	2069.5	2069.5	2069.5

(END OF REPORT)