

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: P1035445

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035445
REPORT IS A COMBINATION OF REPORTS P1003874 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-D
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

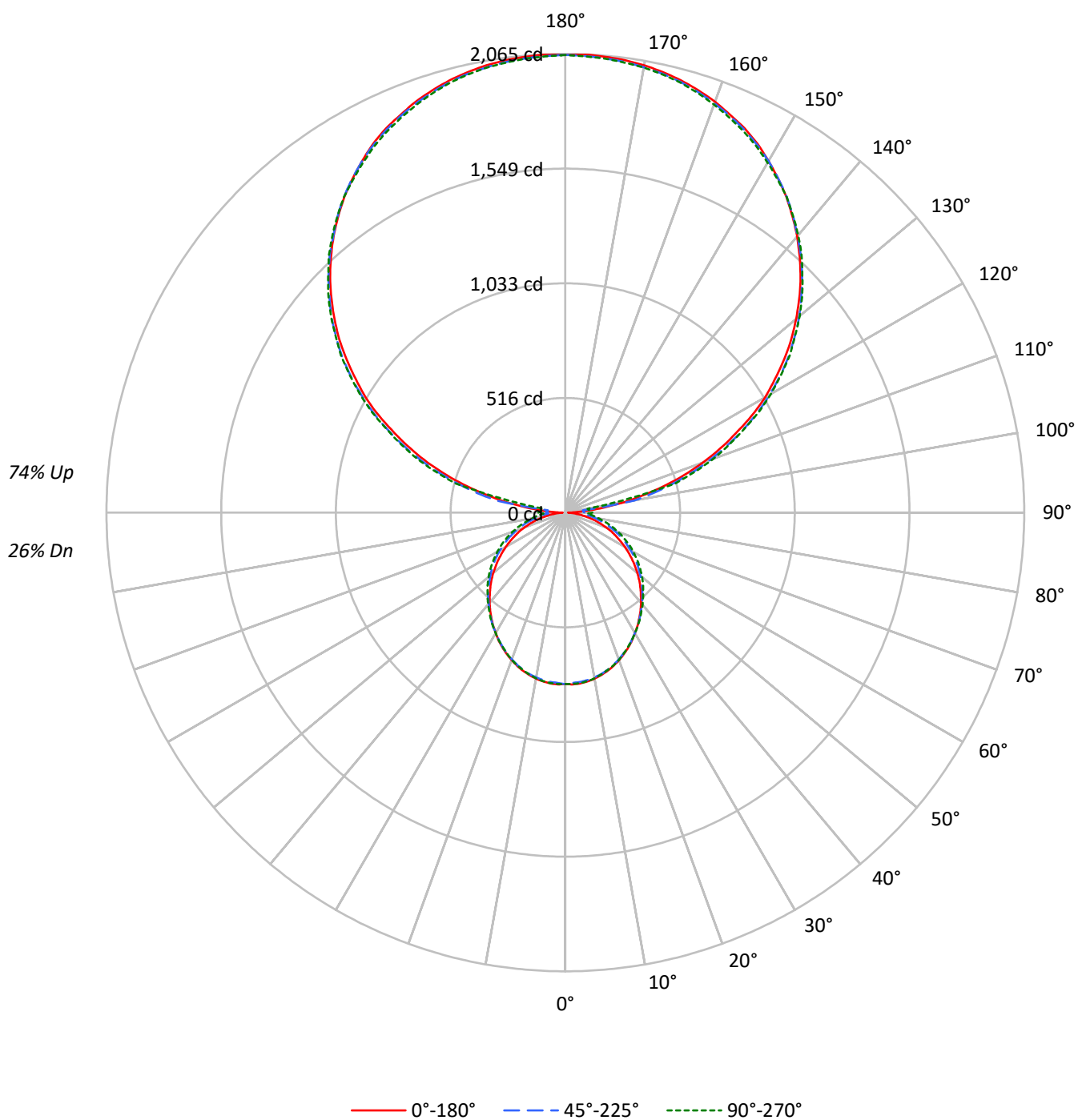
Lumens per Lamp: N/A
Luminaire Lumens: 8723.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	61	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°	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	0.8
10°-20°	207.3	2.4
20°-30°	308.3	3.5
30°-40°	365.1	4.2
40°-50°	377.5	4.3
50°-60°	347.7	4.0
60°-70°	281.1	3.2
70°-80°	188.1	2.2
80°-90°	100.3	1.1
90°-100°	124.7	1.4
100°-110°	505.3	5.8
110°-120°	864.4	9.9
120°-130°	1090.1	12.5
130°-140°	1162.7	13.3
140°-150°	1086.3	12.5
150°-160°	877.6	10.1
160°-170°	567.6	6.5
170°-180°	195.7	2.2
0°-30°	588.7	6.7
0°-40°	953.8	10.9
0°-60°	1679.1	19.2
0°-90°	2248.6	25.8
90°-120°	1494.4	17.1
90°-150°	4833.5	55.4
90°-180°	6474.0	74.2
0°-180°	8723.0	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	13
95°	97	112	80	104	109	114
105°	456	474	497	512	516	483
115°	848	860	882	889	885	840
125°	1202	1212	1227	1233	1232	1074
135°	1497	1505	1507	1514	1509	1154
145°	1734	1737	1737	1742	1736	1085
155°	1909	1900	1903	1908	1895	880
165°	2014	2005	2007	2016	2004	569
175°	2060	2051	2053	2065	2051	196
180°	2060	2060	2060	2060	2060	

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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	50.0	86.4	111.6	121.5
92.5°	39.6	47.8	83.4	107.8	114.6
95°	96.9	112.0	79.6	104.0	109.3
97.5°	172.5	199.8	79.7	98.6	105.5
100°	263.4	283.8	314.2	102.5	101.0
102.5°	355.8	376.2	402.8	420.9	297.3
105°	455.8	474.0	496.7	511.9	515.6
107.5°	559.0	569.5	594.5	611.2	609.7
110°	659.0	668.1	692.3	702.1	708.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	753.7	765.1	787.0	794.6	796.8
115°	847.6	860.5	881.7	889.2	884.7
117.5°	946.2	950.0	975.0	978.6	980.8
120°	1037.8	1038.6	1060.5	1070.3	1067.3
122.5°	1117.9	1126.4	1144.5	1153.5	1149.0
125°	1201.9	1211.9	1227.0	1233.0	1232.2
127.5°	1282.2	1289.0	1300.4	1308.6	1301.0
130°	1355.5	1362.3	1374.5	1380.5	1376.6
132.5°	1428.0	1437.2	1440.2	1450.8	1446.2
135°	1496.7	1505.2	1507.4	1514.2	1508.8
137.5°	1560.9	1569.4	1569.3	1578.4	1573.8
140°	1622.8	1625.9	1625.0	1636.4	1630.3
142.5°	1679.3	1680.0	1683.1	1689.9	1683.7
145°	1734.3	1736.6	1736.6	1741.9	1735.7
147.5°	1782.4	1782.4	1783.9	1786.9	1777.7
150°	1828.2	1825.1	1828.2	1831.2	1819.8
152.5°	1872.5	1864.8	1867.9	1871.0	1860.3
155°	1909.1	1900.0	1903.0	1907.6	1895.4
157.5°	1938.2	1933.6	1933.6	1938.2	1925.9
160°	1968.7	1959.5	1961.1	1967.2	1955.0
162.5°	1993.1	1984.0	1985.5	1994.7	1980.9
165°	2014.5	2005.4	2006.9	2016.1	2003.8
167.5°	2031.3	2022.2	2023.7	2034.4	2020.6
170°	2045.1	2034.4	2035.9	2048.1	2034.4
172.5°	2054.2	2043.5	2046.6	2057.3	2043.5
175°	2060.3	2051.2	2052.7	2064.9	2051.2
177.5°	2064.9	2055.8	2057.3	2068.0	2055.8
180°	2060.3	2060.3	2060.3	2060.3	2060.3

(END OF REPORT)