

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: P1035441

Luminaire Tested: S125DIW-B610D1560UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035441
REPORT IS A COMBINATION OF REPORTS P1003847 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D1560UB27-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

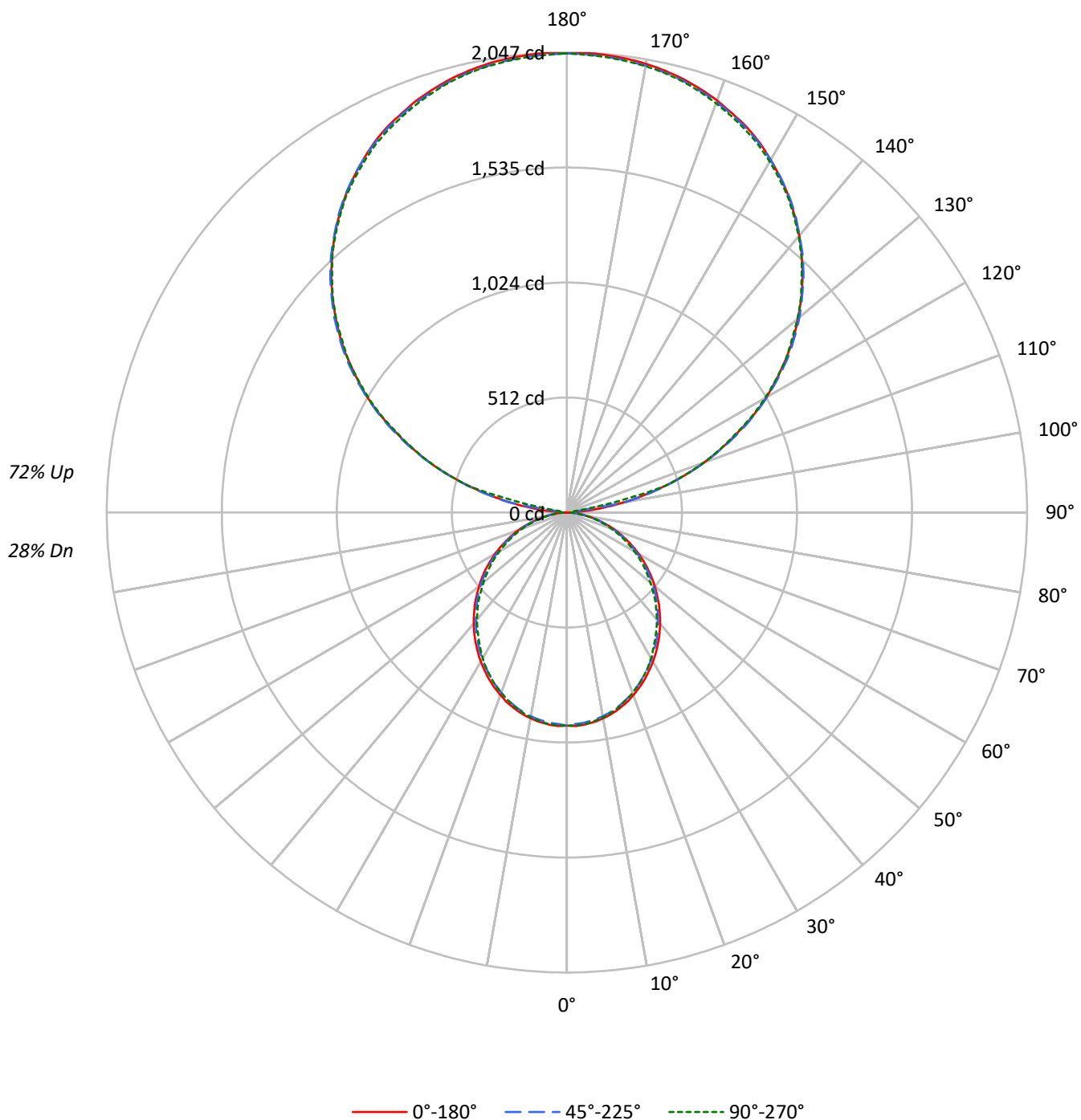
Lumens per Lamp: N/A
Luminaire Lumens: 8746.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6075	6075	6075
5°	6075	5934	5946
10°	6025	5799	5780
15°	5947	5636	5585
20°	5839	5447	5362
25°	5725	5241	5122
30°	5586	5027	4870
35°	5438	4802	4587
40°	5285	4564	4335
45°	5119	4332	4068
50°	4937	4070	3757
55°	4757	3781	3470
60°	4542	3475	3137
65°	4285	3122	2793
70°	4025	2716	2396
75°	3584	2235	1937
80°	3054	1670	1425
85°	2361	988	786

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5119 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	1.0
10°-20°	252.7	2.9
20°-30°	373.1	4.3
30°-40°	435.3	5.0
40°-50°	437.2	5.0
50°-60°	383.8	4.4
60°-70°	285.9	3.3
70°-80°	163.3	1.9
80°-90°	50.2	0.6
90°-100°	69.3	0.8
100°-110°	461.0	5.3
110°-120°	830.2	9.5
120°-130°	1065.6	12.2
130°-140°	1146.1	13.1
140°-150°	1075.7	12.3
150°-160°	870.1	9.9
160°-170°	562.7	6.4
170°-180°	194.1	2.2
0°-30°	715.3	8.2
0°-40°	1150.7	13.2
0°-60°	1971.7	22.5
0°-90°	2471.0	28.3
90°-120°	1360.6	15.6
90°-150°	4648.1	53.1
90°-180°	6275.0	71.7
0°-180°	8746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	947	945	938	944	944	90
15°	902	900	892	896	896	254
25°	819	815	806	807	805	377
35°	707	704	694	690	684	443
45°	579	576	567	558	556	446
55°	441	439	428	422	416	394
65°	298	296	288	281	278	295
75°	158	157	153	151	148	169
85°	41	42	42	41	40	45
90°	2	14	24	32	36	7
95°	86	82	24	32	32	106
105°	445	451	451	451	450	472
115°	836	844	845	839	830	829
125°	1189	1199	1199	1193	1189	1062
135°	1482	1492	1488	1486	1476	1143
145°	1719	1722	1722	1723	1714	1075
155°	1893	1884	1887	1891	1879	872
165°	1997	1988	1990	1999	1987	564
175°	2043	2034	2035	2047	2034	195
180°	2043	2043	2043	2043	2043	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.2	948.2	948.2	948.2	948.2
2.5°	951.2	949.0	941.5	949.0	948.2
5°	946.7	945.2	937.7	944.5	943.7
7.5°	940.0	938.5	930.2	937.0	936.2
10°	930.2	928.7	920.5	926.5	925.7
12.5°	918.2	915.2	907.7	912.2	912.2
15°	902.5	900.2	892.0	895.7	895.7
17.5°	886.0	882.2	874.0	878.5	874.7
20°	864.2	862.7	853.0	858.2	854.5
22.5°	842.5	839.5	830.4	833.4	831.2
25°	819.2	815.4	805.7	807.2	804.9
27.5°	792.2	789.9	780.2	780.9	778.7
30°	765.9	763.7	752.4	750.9	748.7
32.5°	737.4	733.7	723.9	720.9	716.4
35°	707.4	704.4	693.9	690.2	684.2
37.5°	676.7	672.9	663.2	657.9	654.2
40°	645.2	641.4	630.9	624.1	621.9
42.5°	611.4	608.4	597.9	591.9	588.1
45°	579.1	576.1	567.1	558.1	555.9
47.5°	543.9	544.6	533.4	524.4	519.1
50°	510.1	507.9	498.9	489.1	483.9
52.5°	475.6	474.1	464.4	456.1	450.1
55°	441.1	438.9	428.4	421.6	416.3
57.5°	404.3	403.6	394.6	385.6	383.3
60°	369.8	366.8	358.6	351.1	345.8
62.5°	333.8	331.6	324.8	316.6	312.8
65°	297.8	296.3	288.1	281.3	278.3
67.5°	262.6	259.6	253.6	247.6	246.1
70°	229.6	225.8	219.1	214.6	211.6
72.5°	193.5	191.3	187.5	182.3	179.3
75°	158.3	156.8	153.0	150.8	147.8
77.5°	125.3	124.5	122.3	120.8	118.5
80°	94.5	94.5	93.0	92.3	90.8
82.5°	67.5	66.0	66.0	64.5	64.5
85°	41.3	42.0	42.0	41.3	39.8
87.5°	20.3	20.3	19.5	19.5	18.0
90°	1.5	13.6	24.2	31.8	36.3
92.5°	28.8	15.1	24.2	31.8	33.3
95°	86.3	81.8	24.2	31.8	31.8
97.5°	162.0	171.1	27.3	30.3	31.8
100°	252.9	257.4	263.5	37.9	31.8
102.5°	345.3	351.3	354.3	357.4	230.2
105°	445.2	451.3	451.3	451.3	449.7
107.5°	548.2	548.2	551.2	552.7	546.7
110°	648.1	648.1	651.1	646.6	648.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	742.0	746.5	748.1	742.0	739.0
115°	835.9	843.5	845.0	838.9	829.8
117.5°	934.3	934.3	940.4	931.3	928.3
120°	1025.2	1023.7	1028.2	1025.2	1017.6
122.5°	1105.4	1113.0	1114.5	1111.5	1102.4
125°	1188.7	1199.3	1199.3	1193.3	1188.7
127.5°	1269.0	1276.5	1275.0	1272.0	1259.9
130°	1341.7	1349.2	1350.7	1346.2	1338.6
132.5°	1414.3	1423.4	1418.9	1418.9	1411.3
135°	1482.5	1491.6	1488.5	1485.5	1476.4
137.5°	1546.1	1555.2	1552.1	1552.1	1544.6
140°	1608.2	1611.2	1609.7	1612.7	1603.6
142.5°	1664.2	1665.7	1668.7	1668.7	1659.7
145°	1718.7	1721.7	1721.7	1723.3	1714.2
147.5°	1767.2	1767.2	1768.7	1770.2	1759.6
150°	1812.6	1809.6	1812.6	1815.6	1803.5
152.5°	1856.5	1848.9	1852.0	1855.0	1844.4
155°	1892.9	1883.8	1886.8	1891.3	1879.2
157.5°	1921.6	1917.1	1917.1	1921.6	1909.5
160°	1951.9	1942.8	1944.3	1950.4	1938.3
162.5°	1976.1	1967.1	1968.6	1977.7	1964.0
165°	1997.3	1988.3	1989.8	1998.9	1986.7
167.5°	2014.0	2004.9	2006.4	2017.0	2003.4
170°	2027.6	2017.0	2018.5	2030.7	2017.0
172.5°	2036.7	2026.1	2029.1	2039.7	2026.1
175°	2042.8	2033.7	2035.2	2047.3	2033.7
177.5°	2047.3	2038.2	2039.7	2050.3	2038.2
180°	2042.8	2042.8	2042.8	2042.8	2042.8

(END OF REPORT)