

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: P1035442

Luminaire Tested: S125DIW-B610D1560UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035442
REPORT IS A COMBINATION OF REPORTS P1003848 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-F1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

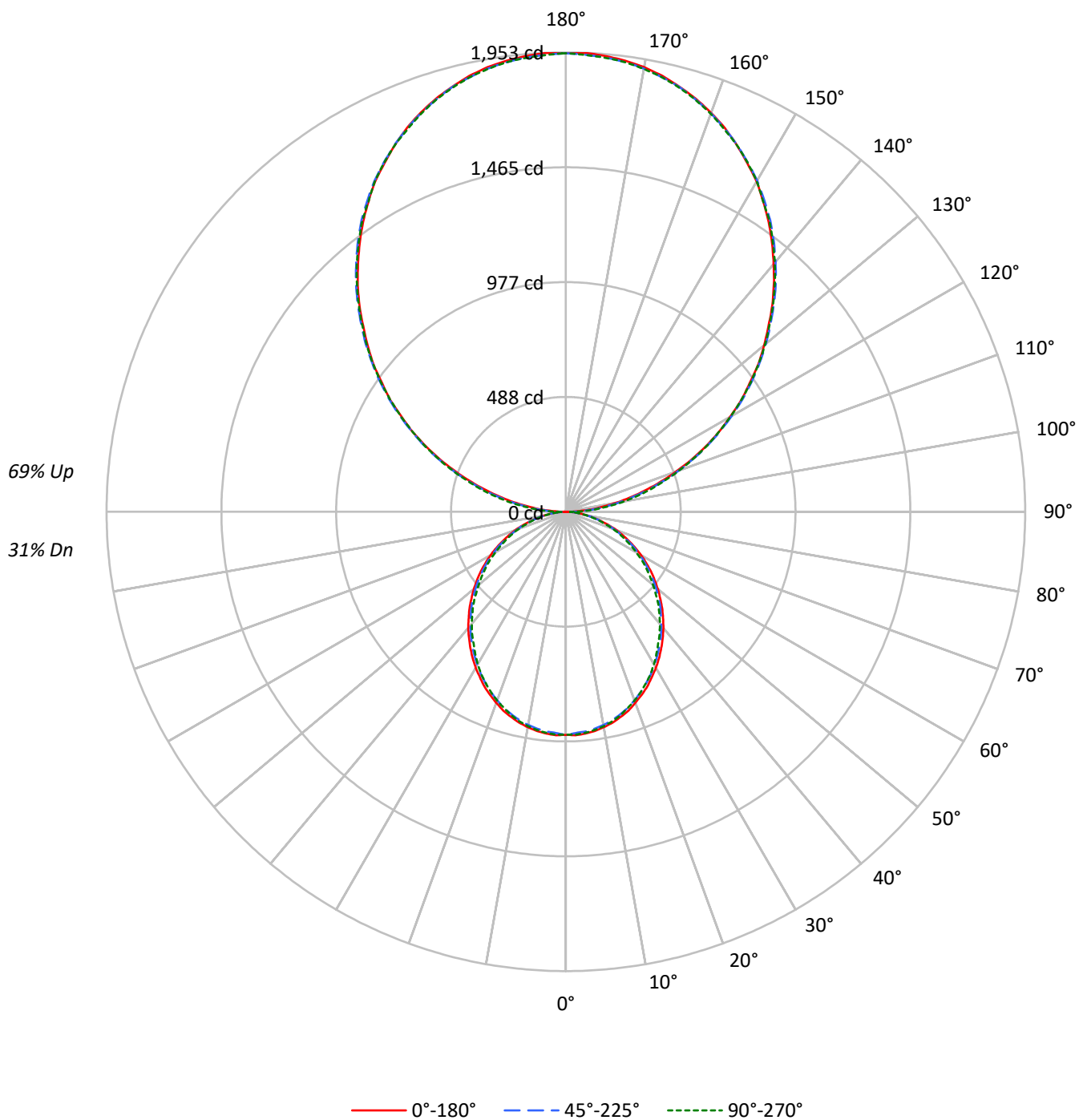
Lumens per Lamp: N/A
Luminaire Lumens: 7912.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	94	89	86	82	84	80	77	74	64	62	60	48	47	46	34	33	33
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	29	27
3	78	68	61	56	69	62	56	51	49	45	41	37	35	32	27	25	23
4	71	60	53	47	63	55	48	43	44	39	35	33	30	27	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	26	24	21	19	17
6	60	48	40	35	53	44	37	32	35	30	26	27	23	21	19	17	15
7	55	43	36	30	49	39	32	28	32	27	23	24	21	18	18	15	14
8	51	39	32	26	46	36	29	24	29	24	20	22	19	16	16	14	12
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10

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	1.1
10°-20°	252.7	3.2
20°-30°	373.1	4.7
30°-40°	435.3	5.5
40°-50°	437.2	5.5
50°-60°	383.8	4.9
60°-70°	285.9	3.6
70°-80°	163.3	2.1
80°-90°	50.2	0.6
90°-100°	129.6	1.6
100°-110°	385.1	4.9
110°-120°	653.2	8.3
120°-130°	859.9	10.9
130°-140°	963.5	12.2
140°-150°	944.4	11.9
150°-160°	793.3	10.0
160°-170°	527.3	6.7
170°-180°	184.5	2.3
0°-30°	715.3	9.0
0°-40°	1150.7	14.5
0°-60°	1971.7	24.9
0°-90°	2471.1	31.2
90°-120°	1167.9	14.8
90°-150°	3935.8	49.7
90°-180°	5441.0	68.8
0°-180°	7912.0	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	9
95°	99	102	117	127	130	103
105°	346	354	363	372	376	369
115°	654	660	663	662	660	647
125°	954	963	965	962	960	855
135°	1241	1250	1252	1252	1246	957
145°	1504	1510	1514	1514	1510	940
155°	1720	1720	1722	1728	1720	792
165°	1871	1868	1869	1875	1866	528
175°	1945	1939	1939	1948	1937	185
180°	1950	1950	1950	1950	1950	

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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	13.7	24.3	31.9	36.4
92.5°	45.5	53.1	66.8	77.4	80.4
95°	98.6	101.6	116.8	127.4	130.5
97.5°	151.7	153.2	174.5	183.6	185.1
100°	212.4	212.4	232.1	245.8	248.8
102.5°	277.6	285.2	292.8	308.0	312.5
105°	345.9	353.5	362.6	371.7	376.3
107.5°	420.2	427.8	435.4	440.0	440.0
110°	497.6	505.2	509.8	514.3	512.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	576.5	579.5	585.6	587.1	584.1
115°	653.9	660.0	663.0	661.5	660.0
117.5°	732.8	734.3	737.3	738.8	732.8
120°	805.6	813.2	814.7	814.7	808.6
122.5°	884.5	886.0	890.6	889.0	884.5
125°	954.3	963.4	964.9	961.9	960.3
127.5°	1031.7	1036.2	1037.7	1036.2	1033.2
130°	1099.9	1107.5	1110.5	1109.0	1106.0
132.5°	1168.2	1181.9	1180.3	1178.8	1174.3
135°	1241.0	1250.1	1251.6	1251.6	1245.6
137.5°	1309.3	1318.4	1321.4	1322.9	1315.4
140°	1374.5	1382.1	1386.7	1389.7	1382.1
142.5°	1439.8	1445.8	1451.9	1453.4	1445.8
145°	1503.5	1509.6	1514.1	1514.1	1509.6
147.5°	1562.7	1567.2	1570.2	1574.8	1562.7
150°	1621.8	1620.3	1626.4	1626.4	1623.3
152.5°	1670.4	1673.4	1674.9	1679.5	1673.4
155°	1720.4	1720.4	1722.0	1728.0	1720.4
157.5°	1766.0	1762.9	1764.4	1770.5	1759.9
160°	1805.4	1800.8	1802.4	1808.4	1800.8
162.5°	1840.3	1837.3	1837.3	1844.8	1835.7
165°	1870.6	1867.6	1869.1	1875.2	1866.1
167.5°	1897.9	1891.9	1891.9	1901.0	1891.9
170°	1919.2	1913.1	1913.1	1922.2	1911.6
172.5°	1934.4	1928.3	1928.3	1937.4	1928.3
175°	1945.0	1938.9	1938.9	1948.0	1937.4
177.5°	1952.6	1946.5	1945.0	1954.1	1943.5
180°	1949.5	1949.5	1949.5	1949.5	1949.5

(END OF REPORT)