

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: P1036009

Luminaire Tested: S125RDIW-B610D1560UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036009
REPORT IS A COMBINATION OF REPORTS P1006671 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D1560UB27-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

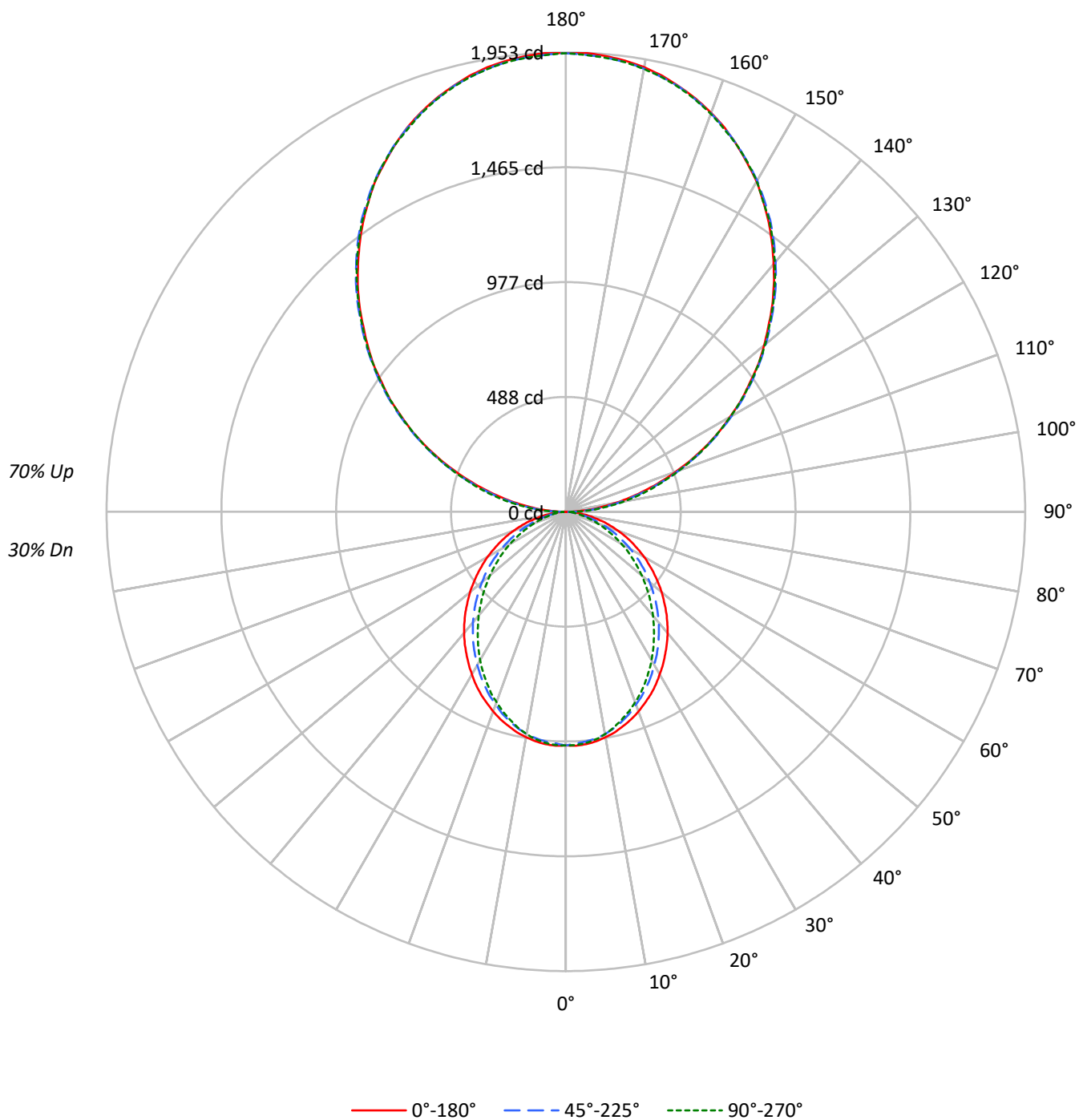
Lumens per Lamp: N/A
Luminaire Lumens: 7791.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	92	92	92	92	72	72	72	54	54	54	38	38	38
1	93	89	86	82	84	80	77	74	63	61	59	48	47	45	34	33	32
2	85	78	72	67	76	70	65	61	56	52	49	42	40	38	30	28	27
3	78	69	62	56	70	62	56	51	49	45	42	37	35	32	26	25	23
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20
5	65	54	46	41	58	49	42	37	39	34	30	30	27	24	21	19	18
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	19	17	16
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14
8	51	39	32	27	46	36	29	25	29	24	21	22	19	16	16	14	12
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	20	24	20	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6365	6365	6365
5°	6366	6206	6216
10°	6303	6050	5997
15°	6214	5831	5707
20°	6103	5567	5404
25°	5977	5310	5080
30°	5822	5027	4738
35°	5664	4740	4376
40°	5513	4446	4022
45°	5332	4127	3651
50°	5149	3789	3274
55°	4936	3456	2883
60°	4718	3076	2478
65°	4459	2651	2040
70°	4156	2158	1606
75°	3738	1622	1171
80°	3151	1050	790
85°	2361	564	444

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5332 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	1.2
10°-20°	261.3	3.4
20°-30°	378.8	4.9
30°-40°	431.6	5.5
40°-50°	420.7	5.4
50°-60°	354.1	4.5
60°-70°	248.1	3.2
70°-80°	127.2	1.6
80°-90°	34.8	0.4
90°-100°	129.6	1.7
100°-110°	385.1	4.9
110°-120°	653.2	8.4
120°-130°	859.9	11.0
130°-140°	963.5	12.4
140°-150°	944.4	12.1
150°-160°	793.3	10.2
160°-170°	527.3	6.8
170°-180°	184.5	2.4
0°-30°	733.6	9.4
0°-40°	1165.2	15.0
0°-60°	1940.0	24.9
0°-90°	2350.1	30.2
90°-120°	1167.9	15.0
90°-150°	3935.8	50.5
90°-180°	5441.0	69.8
0°-180°	7791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	992	989	981	988	987	94
15°	943	939	923	922	915	266
25°	855	844	816	807	798	394
35°	737	719	685	663	653	461
45°	603	582	540	510	499	465
55°	458	434	392	358	346	409
65°	310	284	245	215	203	307
75°	165	143	111	94	89	174
85°	41	28	24	23	22	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°	993.4	993.4	993.4	993.4	993.4
2.5°	995.6	993.4	985.9	993.4	992.6
5°	991.9	988.9	980.6	988.1	986.6
7.5°	984.4	981.4	971.6	977.6	976.1
10°	973.1	970.9	960.4	962.6	960.4
12.5°	960.4	957.4	942.4	943.9	940.1
15°	943.1	938.6	922.9	922.1	915.3
17.5°	925.1	918.3	899.6	895.8	890.6
20°	903.3	895.8	871.8	868.1	861.3
22.5°	879.3	871.8	846.3	838.1	832.8
25°	855.3	844.1	816.3	806.6	798.3
27.5°	828.3	814.8	785.5	772.8	764.5
30°	798.3	784.0	752.5	735.3	728.5
32.5°	769.0	751.8	719.5	700.0	691.0
35°	736.8	718.8	685.0	663.3	652.7
37.5°	706.0	684.3	649.7	624.2	613.7
40°	673.0	650.5	614.5	586.0	577.0
42.5°	638.5	615.2	577.7	550.7	536.5
45°	603.2	581.5	540.2	510.2	498.9
47.5°	566.5	544.0	502.7	471.9	459.2
50°	532.0	507.2	464.4	432.9	421.7
52.5°	494.4	468.9	429.2	394.7	383.4
55°	457.7	433.7	391.6	357.9	345.9
57.5°	420.2	394.7	354.1	321.1	310.6
60°	384.1	357.9	317.4	284.4	273.1
62.5°	345.9	321.1	279.9	249.8	238.6
65°	309.9	284.4	244.6	214.6	203.3
67.5°	273.9	248.3	210.1	181.6	172.6
70°	237.1	211.6	174.1	150.8	141.8
72.5°	201.1	176.3	141.8	120.8	115.5
75°	165.1	142.6	111.0	94.5	89.3
77.5°	128.3	110.3	84.0	71.3	66.8
80°	97.5	79.5	58.5	51.8	50.3
82.5°	67.5	51.8	39.0	36.8	36.0
85°	41.3	27.8	24.0	23.3	22.5
87.5°	17.3	12.0	11.3	11.3	10.5
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)