

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: P1036020

Luminaire Tested: S125RDIW-B610D1560UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036020
REPORT IS A COMBINATION OF REPORTS P1006702 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D1560UB40-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

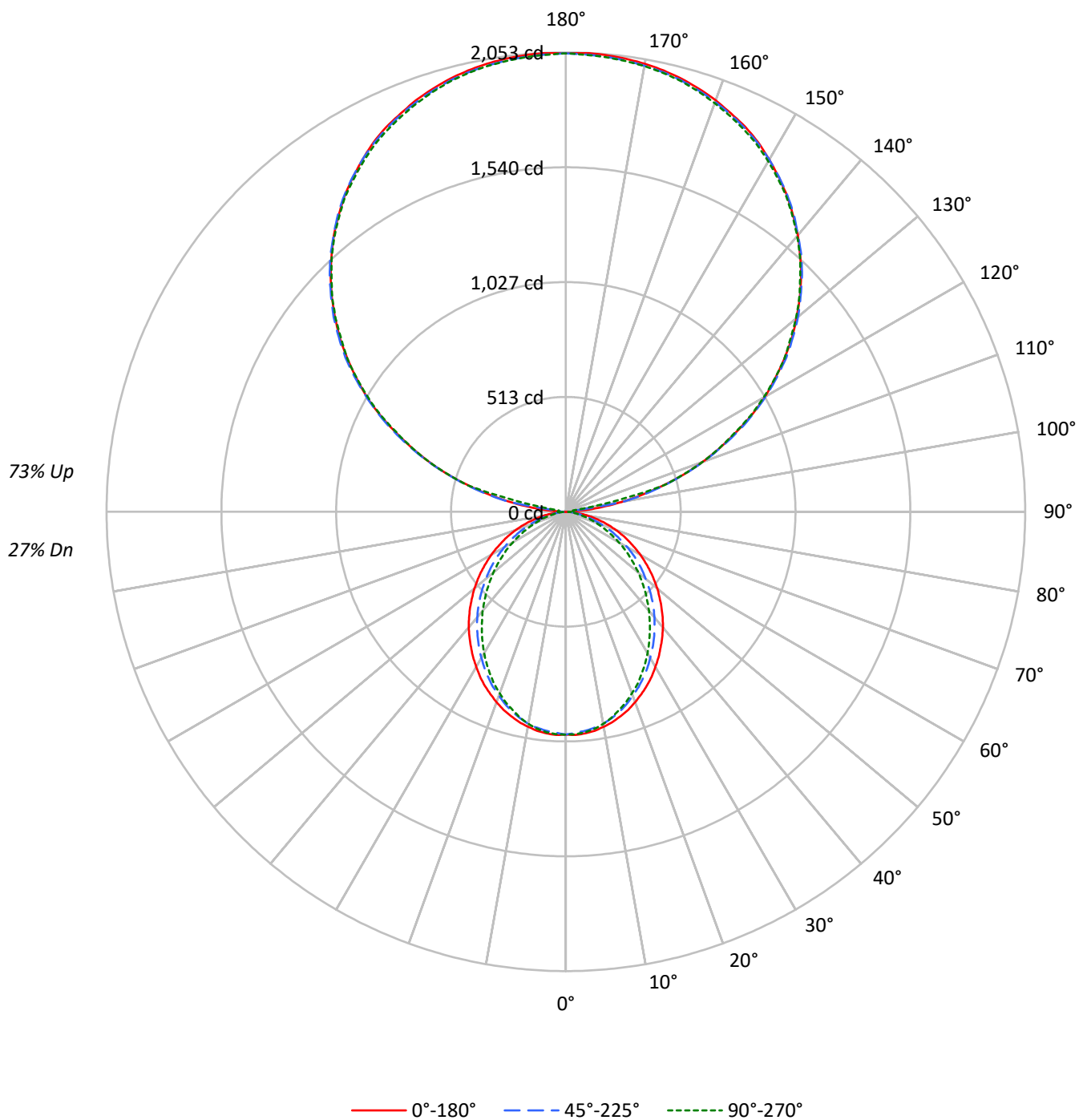
Lumens per Lamp: N/A
Luminaire Lumens: 8649.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35				27
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	31	31	30				23
2	85	78	72	67	75	69	65	60	54	51	48	41	38	37	28	26	25				20
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22				17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19				14
5	65	54	46	40	58	48	42	37	38	33	30	29	25	23	20	18	16				13
6	59	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	14				11
7	55	43	36	30	49	39	32	28	31	26	23	23	20	18	16	14	13				10
8	51	39	32	27	45	35	29	24	28	23	20	21	18	16	15	13	11				9
9	47	36	28	24	42	32	26	22	26	21	18	20	16	14	14	12	10				8
10	44	32	26	21	39	29	23	19	24	19	16	18	15	13	13	11	9				7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6381	6381	6381
5°	6382	6222	6232
10°	6319	6065	6012
15°	6230	5846	5722
20°	6120	5582	5418
25°	5992	5324	5092
30°	5837	5041	4751
35°	5678	4753	4387
40°	5527	4457	4032
45°	5346	4138	3661
50°	5162	3799	3282
55°	4948	3466	2891
60°	4730	3084	2484
65°	4471	2657	2045
70°	4167	2163	1610
75°	3747	1626	1173
80°	3160	1054	791
85°	2367	567	446

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5346 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	1.1
10°-20°	261.9	3.0
20°-30°	379.8	4.4
30°-40°	432.7	5.0
40°-50°	421.8	4.9
50°-60°	355.0	4.1
60°-70°	248.7	2.9
70°-80°	127.5	1.5
80°-90°	34.8	0.4
90°-100°	69.5	0.8
100°-110°	462.4	5.3
110°-120°	832.6	9.6
120°-130°	1068.7	12.4
130°-140°	1149.4	13.3
140°-150°	1078.8	12.5
150°-160°	872.6	10.1
160°-170°	564.3	6.5
170°-180°	194.6	2.3
0°-30°	735.5	8.5
0°-40°	1168.2	13.5
0°-60°	1944.9	22.5
0°-90°	2356.0	27.2
90°-120°	1364.5	15.8
90°-150°	4661.4	53.9
90°-180°	6293.0	72.8
0°-180°	8649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	994	991	983	991	989	94
15°	946	941	925	924	918	267
25°	858	846	818	809	800	395
35°	739	721	687	665	654	463
45°	605	583	542	512	500	466
55°	459	435	393	359	347	410
65°	311	285	245	215	204	308
75°	166	143	111	95	90	175
85°	41	28	24	23	23	45
90°	2	14	24	32	36	7
95°	87	82	24	32	32	106
105°	446	453	453	453	451	473
115°	838	846	847	841	832	831
125°	1192	1203	1203	1197	1192	1065
135°	1487	1496	1493	1490	1481	1146
145°	1724	1727	1727	1728	1719	1078
155°	1898	1889	1892	1897	1885	875
165°	2003	1994	1996	2005	1992	566
175°	2049	2040	2041	2053	2040	195
180°	2049	2049	2049	2049	2049	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	995.9	995.9	995.9	995.9	995.9
2.5°	998.2	995.9	988.4	995.9	995.2
5°	994.4	991.4	983.1	990.7	989.1
7.5°	986.9	983.9	974.1	980.1	978.6
10°	975.6	973.4	962.8	965.1	962.8
12.5°	962.8	959.8	944.8	946.3	942.5
15°	945.5	941.0	925.2	924.5	917.7
17.5°	927.5	920.7	901.9	898.1	892.9
20°	905.7	898.1	874.1	870.3	863.5
22.5°	881.6	874.1	848.5	840.2	834.9
25°	857.5	846.2	818.4	808.6	800.3
27.5°	830.4	816.9	787.6	774.8	766.5
30°	800.3	786.1	754.5	737.2	730.4
32.5°	771.0	753.7	721.4	701.8	692.8
35°	738.7	720.6	686.8	664.9	654.4
37.5°	707.8	686.0	651.4	625.8	615.3
40°	674.7	652.2	616.1	587.5	578.4
42.5°	640.1	616.8	579.2	552.1	537.8
45°	604.8	583.0	541.6	511.5	500.2
47.5°	567.9	545.3	504.0	473.1	460.3
50°	533.3	508.5	465.6	434.0	422.7
52.5°	495.7	470.1	430.3	395.7	384.4
55°	458.8	434.8	392.7	358.8	346.8
57.5°	421.2	395.7	355.0	321.9	311.4
60°	385.1	358.8	318.2	285.1	273.8
62.5°	346.8	321.9	280.6	250.5	239.2
65°	310.7	285.1	245.2	215.1	203.8
67.5°	274.6	249.0	210.6	182.0	173.0
70°	237.7	212.1	174.5	151.2	142.2
72.5°	201.6	176.8	142.2	121.1	115.8
75°	165.5	142.9	111.3	94.8	89.5
77.5°	128.6	110.6	84.2	71.5	66.9
80°	97.8	79.7	58.7	51.9	50.4
82.5°	67.7	51.9	39.1	36.9	36.1
85°	41.4	27.8	24.1	23.3	22.6
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°	28.9	15.2	24.3	31.9	33.4
95°	86.6	82.0	24.3	31.9	31.9
97.5°	162.5	171.6	27.3	30.4	31.9
100°	253.6	258.2	264.2	38.0	31.9
102.5°	346.2	352.3	355.4	358.4	230.8
105°	446.5	452.6	452.6	452.6	451.0
107.5°	549.7	549.7	552.8	554.3	548.2
110°	650.0	650.0	653.0	648.5	650.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	744.1	748.7	750.2	744.1	741.1
115°	838.3	845.9	847.4	841.3	832.2
117.5°	937.0	937.0	943.1	934.0	930.9
120°	1028.1	1026.6	1031.1	1028.1	1020.5
122.5°	1108.6	1116.2	1117.7	1114.7	1105.6
125°	1192.1	1202.8	1202.8	1196.7	1192.1
127.5°	1272.6	1280.2	1278.7	1275.6	1263.5
130°	1345.5	1353.1	1354.6	1350.1	1342.5
132.5°	1418.4	1427.5	1423.0	1423.0	1415.4
135°	1486.7	1495.8	1492.8	1489.8	1480.7
137.5°	1550.5	1559.6	1556.6	1556.6	1549.0
140°	1612.8	1615.8	1614.3	1617.3	1608.2
142.5°	1669.0	1670.5	1673.5	1673.5	1664.4
145°	1723.6	1726.7	1726.7	1728.2	1719.1
147.5°	1772.2	1772.2	1773.8	1775.3	1764.6
150°	1817.8	1814.8	1817.8	1820.8	1808.7
152.5°	1861.8	1854.2	1857.3	1860.3	1849.7
155°	1898.3	1889.2	1892.2	1896.8	1884.6
157.5°	1927.1	1922.6	1922.6	1927.1	1915.0
160°	1957.5	1948.4	1949.9	1956.0	1943.8
162.5°	1981.8	1972.7	1974.2	1983.3	1969.7
165°	2003.1	1994.0	1995.5	2004.6	1992.4
167.5°	2019.8	2010.7	2012.2	2022.8	2009.1
170°	2033.4	2022.8	2024.3	2036.5	2022.8
172.5°	2042.6	2031.9	2035.0	2045.6	2031.9
175°	2048.6	2039.5	2041.0	2053.2	2039.5
177.5°	2053.2	2044.1	2045.6	2056.2	2044.1
180°	2048.6	2048.6	2048.6	2048.6	2048.6

(END OF REPORT)