

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: P1036021

Luminaire Tested: S125RDIW-B610D1560UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036021
REPORT IS A COMBINATION OF REPORTS P1006703 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-F1
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

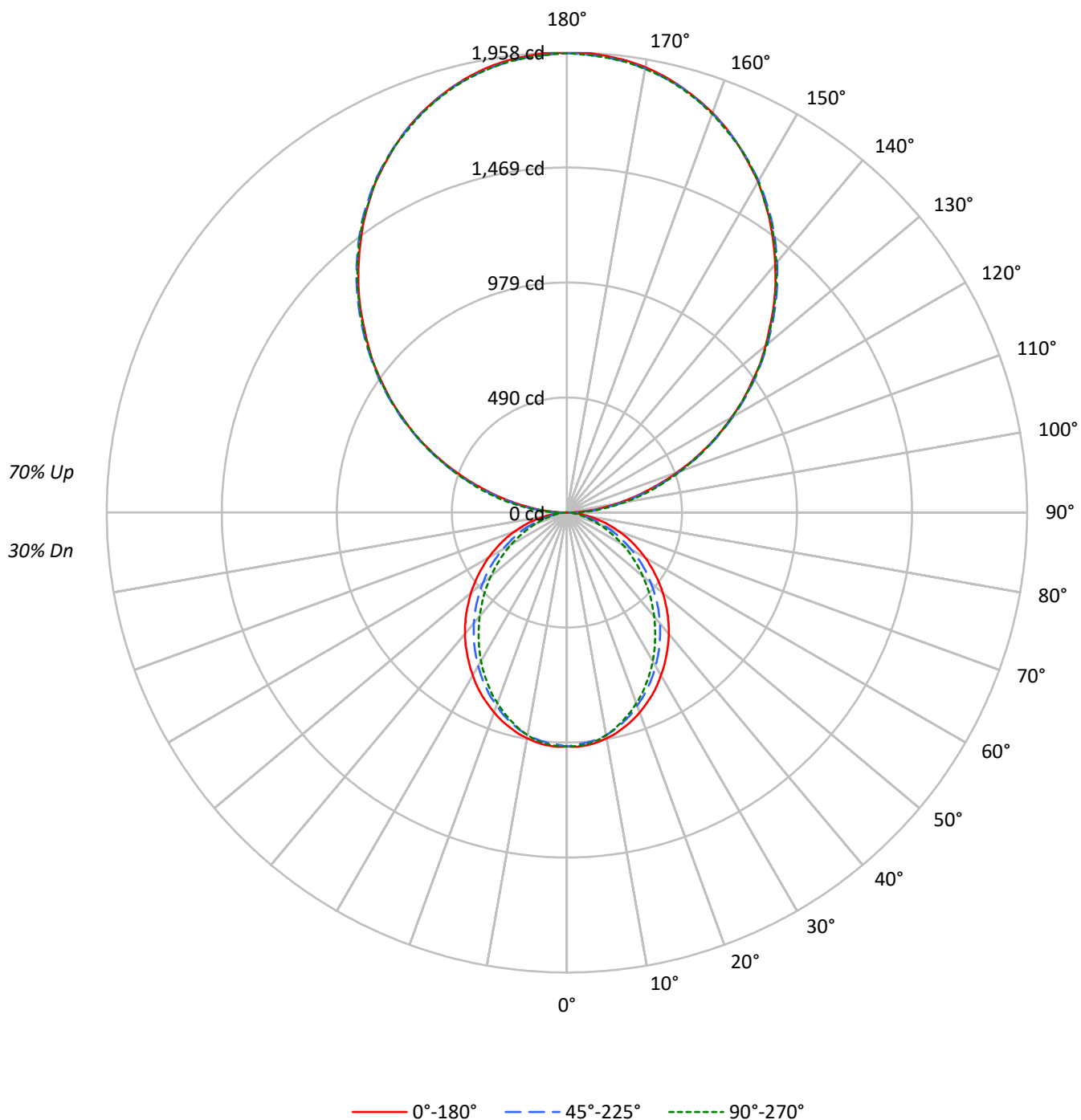
Lumens per Lamp: N/A
Luminaire Lumens: 7813.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
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°	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	1.2
10°-20°	261.9	3.4
20°-30°	379.8	4.9
30°-40°	432.7	5.5
40°-50°	421.8	5.4
50°-60°	355.0	4.5
60°-70°	248.7	3.2
70°-80°	127.5	1.6
80°-90°	34.9	0.4
90°-100°	130.0	1.7
100°-110°	386.3	4.9
110°-120°	655.1	8.4
120°-130°	862.4	11.0
130°-140°	966.4	12.4
140°-150°	947.2	12.1
150°-160°	795.6	10.2
160°-170°	528.9	6.8
170°-180°	185.1	2.4
0°-30°	735.5	9.4
0°-40°	1168.2	15.0
0°-60°	1944.9	24.9
0°-90°	2356.1	30.2
90°-120°	1171.4	15.0
90°-150°	3947.4	50.5
90°-180°	5457.0	69.8
0°-180°	7813.0	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	9
95°	99	102	117	128	131	103
105°	347	354	364	373	377	370
115°	656	662	665	663	662	649
125°	957	966	968	965	963	858
135°	1245	1254	1255	1255	1249	959
145°	1508	1514	1519	1519	1514	943
155°	1726	1726	1727	1733	1726	795
165°	1876	1873	1875	1881	1872	529
175°	1951	1945	1945	1954	1943	185
180°	1955	1955	1955	1955	1955	

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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	32.0	36.5
92.5°	45.6	53.3	67.0	77.6	80.6
95°	98.9	101.9	117.2	127.8	130.9
97.5°	152.2	153.7	175.0	184.1	185.6
100°	213.0	213.0	232.8	246.5	249.5
102.5°	278.5	286.1	293.7	308.9	313.4
105°	346.9	354.5	363.7	372.8	377.4
107.5°	421.5	429.1	436.7	441.3	441.3
110°	499.1	506.7	511.3	515.8	514.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	578.2	581.3	587.3	588.9	585.8
115°	655.8	661.9	664.9	663.4	661.9
117.5°	734.9	736.5	739.5	741.0	734.9
120°	808.0	815.6	817.1	817.1	811.0
122.5°	887.1	888.6	893.2	891.7	887.1
125°	957.1	966.2	967.7	964.7	963.2
127.5°	1034.7	1039.3	1040.8	1039.3	1036.2
130°	1103.2	1110.8	1113.8	1112.3	1109.2
132.5°	1171.6	1185.3	1183.8	1182.3	1177.7
135°	1244.7	1253.8	1255.3	1255.3	1249.2
137.5°	1313.1	1322.3	1325.3	1326.8	1319.2
140°	1378.6	1386.2	1390.7	1393.8	1386.2
142.5°	1444.0	1450.1	1456.2	1457.7	1450.1
145°	1507.9	1514.0	1518.6	1518.6	1514.0
147.5°	1567.2	1571.8	1574.9	1579.4	1567.2
150°	1626.6	1625.1	1631.2	1631.2	1628.1
152.5°	1675.3	1678.3	1679.8	1684.4	1678.3
155°	1725.5	1725.5	1727.0	1733.1	1725.5
157.5°	1771.1	1768.1	1769.6	1775.7	1765.1
160°	1810.7	1806.1	1807.7	1813.7	1806.1
162.5°	1845.7	1842.7	1842.7	1850.3	1841.1
165°	1876.1	1873.1	1874.6	1880.7	1871.6
167.5°	1903.5	1897.4	1897.4	1906.6	1897.4
170°	1924.8	1918.7	1918.7	1927.9	1917.2
172.5°	1940.0	1934.0	1934.0	1943.1	1934.0
175°	1950.7	1944.6	1944.6	1953.7	1943.1
177.5°	1958.3	1952.2	1950.7	1959.8	1949.2
180°	1955.3	1955.3	1955.3	1955.3	1955.3

(END OF REPORT)