

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: P1034857

Luminaire Tested: S125RDIW-B610D1340UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034857
REPORT IS A COMBINATION OF REPORTS P1006640 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B610D1340UB2750-4F0-XX-W2A-F_3500K
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

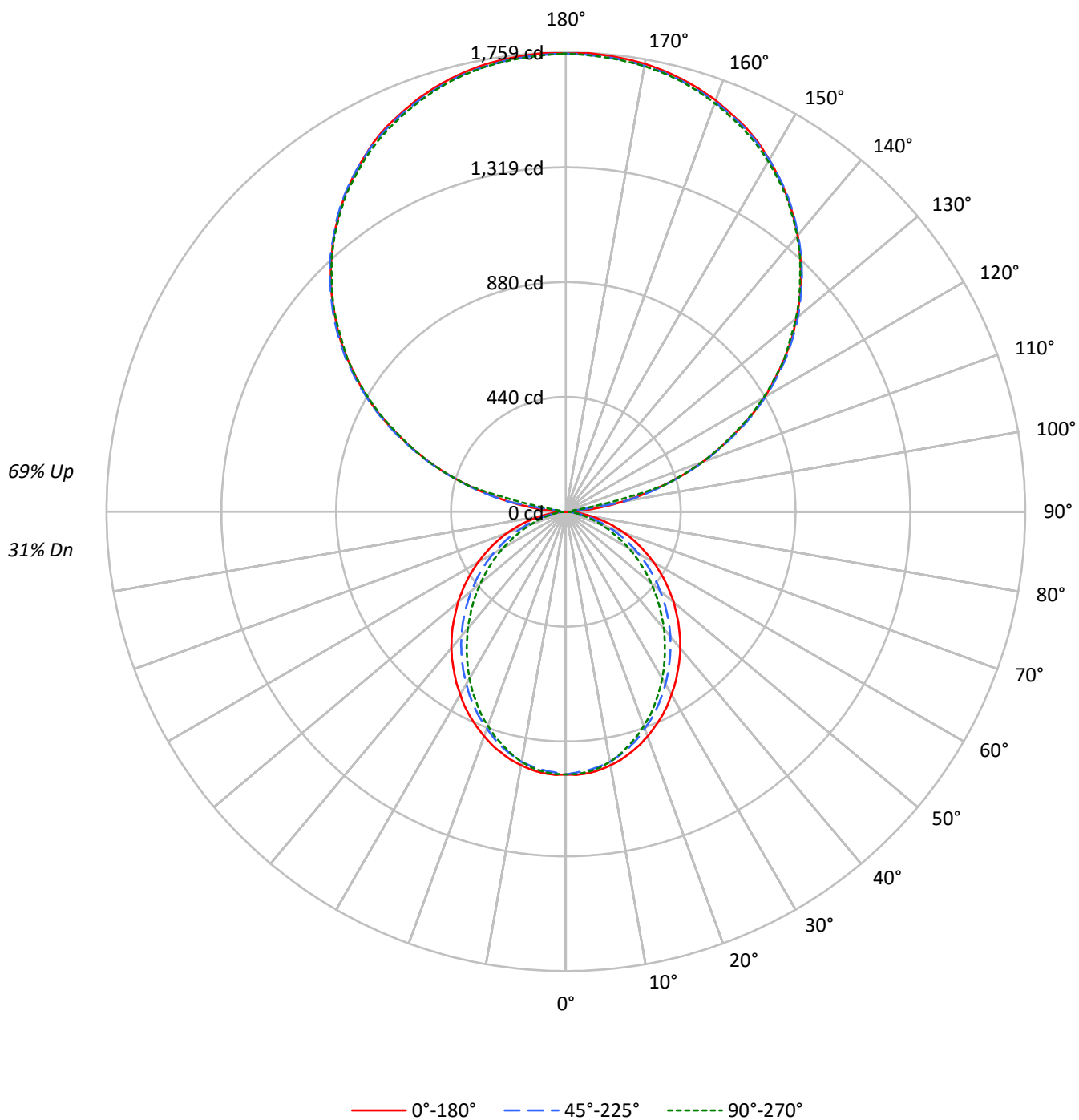
Lumens per Lamp: N/A
Luminaire Lumens: 7770.0 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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	38	38	38
1	94	89	86	82	84	80	77	75	64	62	60	48	47	46	34	33	33
2	85	78	72	67	76	70	66	61	56	53	50	43	40	38	30	29	28
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24
4	71	61	53	48	64	55	48	43	44	39	36	34	30	28	24	22	20
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18
6	60	48	41	35	54	44	37	32	35	30	27	27	24	21	20	17	16
7	55	44	36	31	50	40	33	28	32	27	23	25	21	19	18	16	14
8	51	40	32	27	46	36	29	25	29	24	21	23	19	17	16	14	13
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	15	13	11
10	45	33	26	21	40	30	24	20	24	20	17	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6446	6446	6446
5°	6447	6286	6295
10°	6384	6127	6073
15°	6294	5905	5780
20°	6182	5639	5473
25°	6054	5378	5144
30°	5896	5092	4799
35°	5736	4801	4432
40°	5584	4502	4073
45°	5400	4180	3698
50°	5215	3838	3316
55°	4999	3501	2920
60°	4779	3115	2510
65°	4515	2684	2066
70°	4209	2186	1626
75°	3786	1644	1185
80°	3193	1065	799
85°	2390	571	450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5400 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	1.2
10°-20°	264.6	3.4
20°-30°	383.7	4.9
30°-40°	437.1	5.6
40°-50°	426.1	5.5
50°-60°	358.6	4.6
60°-70°	251.3	3.2
70°-80°	128.8	1.7
80°-90°	34.7	0.4
90°-100°	59.5	0.8
100°-110°	396.0	5.1
110°-120°	713.2	9.2
120°-130°	915.4	11.8
130°-140°	984.6	12.7
140°-150°	924.1	11.9
150°-160°	747.5	9.6
160°-170°	483.4	6.2
170°-180°	166.7	2.1
0°-30°	743.0	9.6
0°-40°	1180.1	15.2
0°-60°	1964.8	25.3
0°-90°	2379.6	30.6
90°-120°	1168.8	15.0
90°-150°	3992.8	51.4
90°-180°	5390.0	69.4
0°-180°	7770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1005	1002	993	1001	999	95
15°	955	951	935	934	927	269
25°	866	855	827	817	808	399
35°	746	728	694	672	661	467
45°	611	589	547	517	505	471
55°	464	439	397	362	350	414
65°	314	288	248	217	206	311
75°	167	144	112	96	90	177
85°	42	28	24	24	23	46
90°	1	12	21	27	31	6
95°	74	70	21	27	27	91
105°	382	388	388	388	386	405
115°	718	725	726	721	713	712
125°	1021	1030	1030	1025	1021	912
135°	1274	1281	1279	1276	1268	982
145°	1476	1479	1479	1480	1472	923
155°	1626	1618	1621	1625	1614	749
165°	1716	1708	1709	1717	1707	485
175°	1755	1747	1748	1759	1747	167
180°	1755	1755	1755	1755	1755	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.1	1006.1	1006.1	1006.1	1006.1
2.5°	1008.4	1006.1	998.5	1006.1	1005.3
5°	1004.6	1001.5	993.2	1000.8	999.2
7.5°	997.0	993.9	984.0	990.1	988.6
10°	985.6	983.3	972.6	974.9	972.6
12.5°	972.6	969.6	954.4	955.9	952.1
15°	955.2	950.6	934.6	933.9	927.0
17.5°	936.9	930.1	911.1	907.3	902.0
20°	914.9	907.3	883.0	879.2	872.3
22.5°	890.6	883.0	857.1	848.8	843.5
25°	866.3	854.9	826.7	816.9	808.5
27.5°	838.9	825.2	795.6	782.7	774.3
30°	808.5	794.1	762.2	744.7	737.8
32.5°	778.9	761.4	728.7	709.0	699.8
35°	746.2	728.0	693.8	671.7	661.1
37.5°	715.0	693.0	658.1	632.2	621.6
40°	681.6	658.8	622.3	593.5	584.3
42.5°	646.7	623.1	585.1	557.7	543.3
45°	610.9	588.9	547.1	516.7	505.3
47.5°	573.7	550.9	509.1	478.0	465.0
50°	538.8	513.7	470.4	438.4	427.1
52.5°	500.8	474.9	434.6	399.7	388.3
55°	463.5	439.2	396.7	362.5	350.3
57.5°	425.5	399.7	358.7	325.2	314.6
60°	389.1	362.5	321.4	288.0	276.6
62.5°	350.3	325.2	283.4	253.0	241.6
65°	313.8	288.0	247.7	217.3	205.9
67.5°	277.4	251.5	212.8	183.9	174.8
70°	240.1	214.3	176.3	152.7	143.6
72.5°	203.6	178.6	143.6	122.3	117.0
75°	167.2	144.4	112.5	95.7	90.4
77.5°	129.9	111.7	85.1	72.2	67.6
80°	98.8	80.5	59.3	52.4	50.9
82.5°	68.4	52.4	39.5	37.2	36.5
85°	41.8	28.1	24.3	23.6	22.8
87.5°	17.5	12.2	11.4	11.4	10.6
90°	1.3	11.7	20.8	27.3	31.2
92.5°	24.7	13.0	20.8	27.3	28.6
95°	74.1	70.2	20.8	27.3	27.3
97.5°	139.2	147.0	23.4	26.0	27.3
100°	217.2	221.1	226.3	32.5	27.3
102.5°	296.6	301.8	304.4	307.0	197.7
105°	382.4	387.6	387.6	387.6	386.3
107.5°	470.9	470.9	473.5	474.8	469.6
110°	556.8	556.8	559.4	555.5	556.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	637.4	641.3	642.6	637.4	634.8
115°	718.1	724.6	725.9	720.7	712.8
117.5°	802.6	802.6	807.8	800.0	797.4
120°	880.7	879.4	883.3	880.7	874.2
122.5°	949.6	956.1	957.4	954.8	947.0
125°	1021.1	1030.3	1030.3	1025.0	1021.1
127.5°	1090.1	1096.6	1095.3	1092.7	1082.3
130°	1152.5	1159.0	1160.3	1156.4	1149.9
132.5°	1215.0	1222.8	1218.9	1218.9	1212.4
135°	1273.5	1281.3	1278.7	1276.1	1268.3
137.5°	1328.1	1335.9	1333.3	1333.3	1326.8
140°	1381.5	1384.1	1382.8	1385.4	1377.6
142.5°	1429.6	1430.9	1433.5	1433.5	1425.7
145°	1476.4	1479.0	1479.0	1480.3	1472.5
147.5°	1518.1	1518.1	1519.4	1520.7	1511.6
150°	1557.1	1554.5	1557.1	1559.7	1549.3
152.5°	1594.8	1588.3	1590.9	1593.5	1584.4
155°	1626.0	1618.2	1620.8	1624.7	1614.3
157.5°	1650.7	1646.8	1646.8	1650.7	1640.3
160°	1676.8	1669.0	1670.3	1675.5	1665.1
162.5°	1697.6	1689.8	1691.1	1698.9	1687.2
165°	1715.8	1708.0	1709.3	1717.1	1706.7
167.5°	1730.1	1722.3	1723.6	1732.7	1721.0
170°	1741.8	1732.7	1734.0	1744.4	1732.7
172.5°	1749.6	1740.5	1743.1	1752.2	1740.5
175°	1754.8	1747.0	1748.3	1758.7	1747.0
177.5°	1758.7	1750.9	1752.2	1761.3	1750.9
180°	1754.8	1754.8	1754.8	1754.8	1754.8

(END OF REPORT)