

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: P1034161

Luminaire Tested: S124RDIW-B575D1560UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034161
REPORT IS A COMBINATION OF REPORTS P1000571 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B575D1560UB27-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

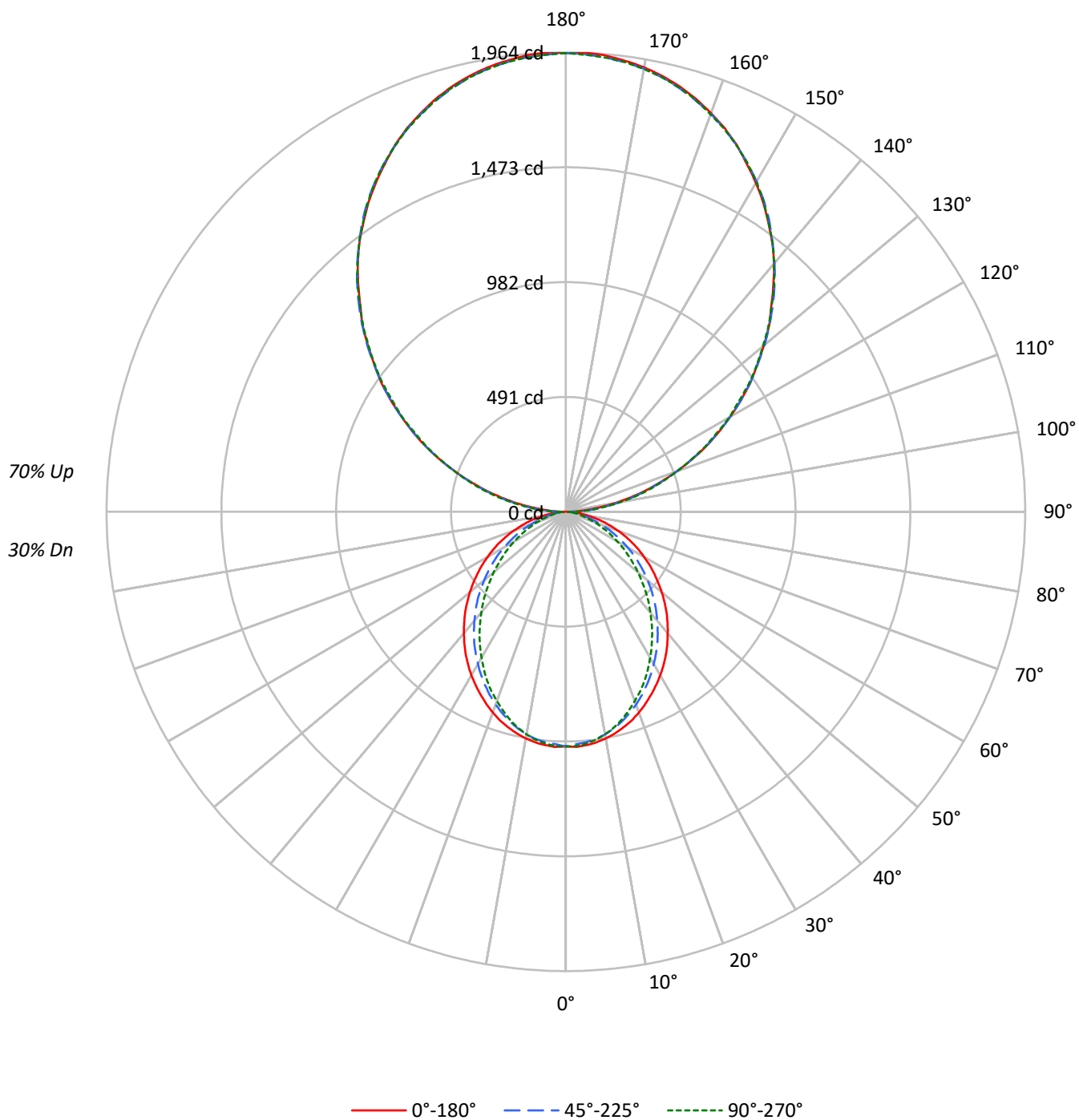
Lumens per Lamp: N/A
Luminaire Lumens: 7764.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0	
RW	70	50	30	10		70	50	30	10		50	30	10		50	30	10		0			
RCR																						
0	102	102	102	102		92	92	92	92		72	72	72		54	54	54		38	38	38	30
1	93	89	86	82		84	80	77	74		63	61	59		48	47	45		33	33	32	26
2	85	78	72	67		76	70	65	61		56	52	49		42	40	38		30	28	27	22
3	78	69	62	56		70	62	56	51		49	45	42		37	35	32		26	25	23	18
4	71	61	53	48		64	55	48	43		44	39	35		33	30	28		24	22	20	16
5	65	54	46	41		58	49	42	37		39	34	31		30	27	24		21	19	18	14
6	60	48	41	35		54	44	37	32		35	30	27		27	24	21		19	17	16	12
7	55	44	36	31		50	40	33	28		32	27	23		25	21	19		18	16	14	11
8	51	40	32	27		46	36	29	25		29	24	21		22	19	17		16	14	12	10
9	48	36	29	24		43	33	26	22		26	22	18		21	17	15		15	13	11	9
10	44	33	26	21		40	30	24	20		24	20	17		19	16	13		14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8181	8181	8181
5°	8182	7938	7938
10°	8112	7687	7595
15°	8000	7375	7191
20°	7854	7020	6730
25°	7672	6636	6280
30°	7493	6245	5774
35°	7298	5848	5280
40°	7064	5421	4772
45°	6845	4998	4269
50°	6596	4535	3759
55°	6327	4060	3232
60°	6028	3557	2711
65°	5739	2979	2210
70°	5330	2371	1689
75°	4804	1726	1181
80°	4014	1059	850
85°	3020	610	467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6845 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.2
10°-20°	263.0	3.4
20°-30°	379.7	4.9
30°-40°	430.4	5.5
40°-50°	415.5	5.4
50°-60°	345.5	4.4
60°-70°	238.4	3.1
70°-80°	120.5	1.6
80°-90°	34.8	0.4
90°-100°	127.8	1.6
100°-110°	382.9	4.9
110°-120°	650.5	8.4
120°-130°	857.9	11.0
130°-140°	963.6	12.4
140°-150°	947.0	12.2
150°-160°	796.5	10.3
160°-170°	530.0	6.8
170°-180°	185.6	2.4
0°-30°	737.1	9.5
0°-40°	1167.5	15.0
0°-60°	1928.5	24.8
0°-90°	2322.2	29.9
90°-120°	1161.2	15.0
90°-150°	3929.7	50.6
90°-180°	5442.0	70.1
0°-180°	7764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1002	999	989	997	996	95
15°	954	947	928	926	921	269
25°	863	849	817	804	797	397
35°	746	721	683	657	643	466
45°	608	580	534	496	482	469
55°	461	430	380	340	326	412
65°	313	280	231	198	189	309
75°	167	138	102	84	80	176
85°	42	26	24	22	22	46
90°	5	21	33	42	46	9
95°	91	105	115	120	120	99
105°	353	355	361	366	370	375
115°	661	661	658	657	655	652
125°	963	963	962	959	956	859
135°	1242	1251	1251	1248	1244	961
145°	1509	1515	1517	1515	1511	945
155°	1729	1729	1728	1734	1728	796
165°	1882	1878	1875	1884	1878	531
175°	1958	1951	1949	1960	1949	186
180°	1961	1961	1961	1961	1961	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.2	1003.2	1003.2	1003.2	1003.2
2.5°	1006.3	1003.2	994.8	1003.2	1002.4
5°	1001.7	998.6	989.4	997.1	995.5
7.5°	994.8	991.7	980.2	985.5	983.2
10°	984.0	980.2	966.3	969.4	966.3
12.5°	970.2	965.6	948.7	950.2	945.6
15°	954.0	947.1	927.9	926.4	921.0
17.5°	935.6	925.6	903.3	899.5	891.8
20°	913.3	903.3	877.2	871.1	861.1
22.5°	888.7	877.2	848.8	838.8	831.1
25°	862.6	848.8	817.3	804.2	796.6
27.5°	835.7	818.8	785.8	770.5	759.7
30°	807.3	788.1	752.0	732.8	720.5
32.5°	777.4	755.1	717.4	694.4	682.9
35°	745.9	721.3	682.9	656.8	642.9
37.5°	712.8	687.5	645.2	616.8	603.0
40°	677.5	652.2	608.4	576.1	562.3
42.5°	643.7	616.8	570.7	537.7	523.1
45°	608.4	580.0	533.9	496.2	482.4
47.5°	572.3	543.1	495.5	456.3	440.9
50°	535.4	505.4	456.3	417.9	403.3
52.5°	497.8	468.6	417.9	378.7	363.3
55°	460.9	430.2	380.2	340.3	325.7
57.5°	424.8	392.5	343.4	302.6	291.9
60°	385.6	354.9	305.7	265.8	253.5
62.5°	350.3	318.0	267.3	231.2	222.0
65°	313.4	280.4	231.2	198.2	189.0
67.5°	275.0	243.5	197.4	168.2	157.5
70°	238.9	206.6	162.8	137.5	129.8
72.5°	200.5	172.1	131.4	110.6	103.7
75°	166.7	138.3	102.2	84.5	79.9
77.5°	131.4	106.8	76.0	63.8	62.2
80°	97.6	75.3	52.2	49.9	49.2
82.5°	68.4	48.4	37.6	36.1	35.3
85°	41.5	26.1	23.8	22.3	22.3
87.5°	17.7	11.5	10.8	10.0	10.8
90°	4.6	21.2	33.4	42.5	45.5
92.5°	39.4	59.2	66.7	71.3	72.8
95°	91.0	104.7	115.3	119.8	119.8
97.5°	145.6	157.8	169.9	176.0	176.0
100°	212.4	218.4	232.1	235.1	235.1
102.5°	282.1	283.6	295.8	300.3	301.9
105°	353.4	354.9	361.0	365.6	370.1
107.5°	427.7	429.3	430.8	436.8	435.3
110°	503.6	506.6	505.1	502.1	506.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	582.5	582.5	579.4	579.4	579.4
115°	661.3	661.3	658.3	656.8	655.3
117.5°	735.7	735.7	734.1	729.6	725.0
120°	810.0	816.1	811.5	803.9	807.0
122.5°	887.4	888.9	887.4	882.8	875.2
125°	963.2	963.2	961.7	958.6	955.6
127.5°	1031.4	1036.0	1033.0	1029.9	1028.4
130°	1104.3	1108.8	1108.8	1105.8	1099.7
132.5°	1178.6	1181.6	1180.1	1177.1	1175.5
135°	1242.3	1251.4	1251.4	1248.4	1243.8
137.5°	1313.6	1318.1	1321.2	1316.6	1318.1
140°	1384.9	1387.9	1387.9	1386.4	1384.9
142.5°	1450.1	1453.1	1451.6	1451.6	1451.6
145°	1509.3	1515.3	1516.8	1515.3	1510.8
147.5°	1569.9	1577.5	1576.0	1574.5	1573.0
150°	1624.5	1630.6	1630.6	1630.6	1629.1
152.5°	1676.1	1679.1	1680.7	1685.2	1680.7
155°	1729.2	1729.2	1727.7	1733.7	1727.7
157.5°	1774.7	1771.7	1771.7	1776.2	1771.7
160°	1814.1	1812.6	1811.1	1815.7	1808.1
162.5°	1850.5	1846.0	1844.5	1853.6	1846.0
165°	1882.4	1877.8	1874.8	1883.9	1877.8
167.5°	1908.2	1902.1	1902.1	1911.2	1902.1
170°	1929.4	1921.8	1923.4	1932.5	1921.8
172.5°	1944.6	1938.5	1938.5	1949.1	1938.5
175°	1958.2	1950.7	1949.1	1959.8	1949.1
177.5°	1964.3	1956.7	1956.7	1967.3	1955.2
180°	1961.3	1961.3	1961.3	1961.3	1961.3

(END OF REPORT)