

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: P1033015

Luminaire Tested: S124RDIW-B575D1560UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033015
REPORT IS A COMBINATION OF REPORTS P1000582 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B575D1560UB2750-4F0-XX-W2A-F_2700K
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

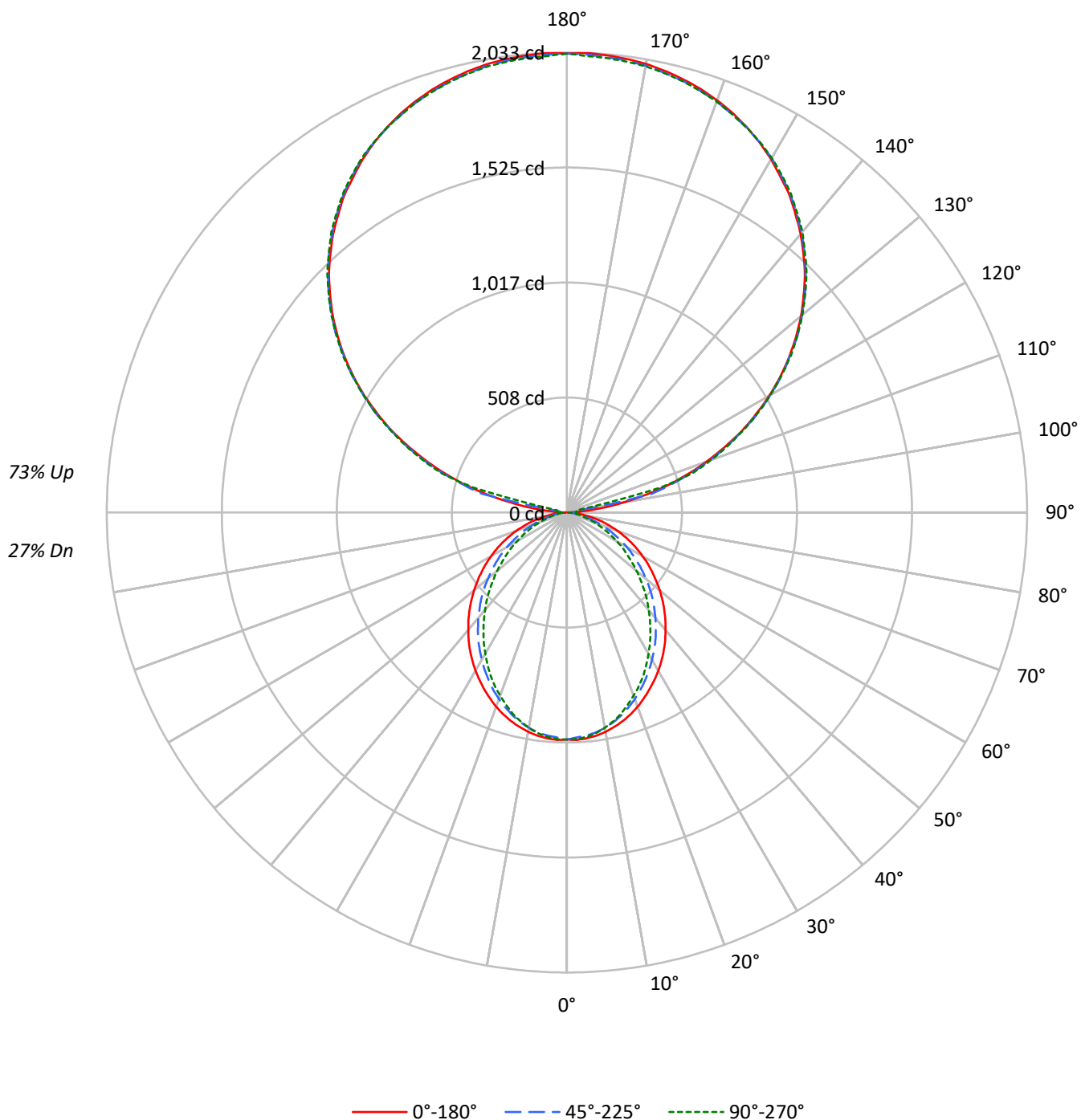
Lumens per Lamp: N/A
Luminaire Lumens: 8598.1 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1033015

CATALOG NUMBER: S124RDIW-B575D1560UB2750-4F0-XX-W2A-F_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1033015

CATALOG NUMBER: S124RDIW-B575D1560UB2750-4F0-XX-W2A-F_2700K

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	91	91	91	91	71	71	71	52	52	52	35	35	35
1	93	89	85	82	83	79	76	73	62	60	58	46	45	43	31	30	30
2	85	78	72	67	75	69	65	60	54	51	48	40	38	36	28	26	25
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19
5	65	54	46	40	58	48	42	37	38	33	30	29	25	23	20	18	16
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	14
7	55	43	36	30	49	39	32	28	31	26	23	23	20	18	16	14	13
8	51	39	32	27	45	35	29	24	28	23	20	21	18	16	15	13	11
9	47	36	28	24	42	32	26	22	26	21	18	20	16	14	14	12	10
10	44	33	26	21	39	29	23	19	24	19	16	18	15	13	13	11	9

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

TEST NUMBER: P1033015

CATALOG NUMBER: S124RDIW-B575D1560UB2750-4F0-XX-W2A-F_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.1
10°-20°	263.0	3.1
20°-30°	379.7	4.4
30°-40°	430.4	5.0
40°-50°	415.5	4.8
50°-60°	345.5	4.0
60°-70°	238.4	2.8
70°-80°	120.5	1.4
80°-90°	34.8	0.4
90°-100°	67.3	0.8
100°-110°	443.4	5.2
110°-120°	846.6	9.8
120°-130°	1074.8	12.5
130°-140°	1149.8	13.4
140°-150°	1075.1	12.5
150°-160°	867.0	10.1
160°-170°	559.1	6.5
170°-180°	192.7	2.2
0°-30°	737.1	8.6
0°-40°	1167.5	13.6
0°-60°	1928.5	22.4
0°-90°	2322.2	27.0
90°-120°	1357.3	15.8
90°-150°	4657.0	54.2
90°-180°	6276.0	73.0
0°-180°	8598.1	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	7
95°	83	32	33	42	44	103
105°	457	466	473	487	432	478
115°	852	857	856	859	859	839
125°	1198	1204	1201	1206	1208	1070
135°	1487	1485	1491	1494	1497	1145
145°	1714	1719	1719	1720	1723	1071
155°	1880	1881	1876	1882	1878	867
165°	1983	1975	1975	1987	1974	560
175°	2028	2019	2021	2034	2016	193
180°	2028	2028	2028	2028	2028	

TEST NUMBER: P1033015

CATALOG NUMBER: S124RDIW-B575D1560UB2750-4F0-XX-W2A-F_2700K

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°	22.8	19.7	31.9	41.0	41.0
95°	83.4	31.9	33.4	42.5	44.0
97.5°	159.3	192.7	33.4	41.0	42.5
100°	248.8	276.1	66.7	41.0	42.5
102.5°	348.9	367.1	385.3	44.0	44.0
105°	456.6	465.7	473.3	486.9	432.3
107.5°	555.2	559.8	570.4	578.0	584.0
110°	655.3	659.9	669.0	672.0	676.6

TEST NUMBER: P1033015

CATALOG NUMBER: S124RDIW-B575D1560UB2750-4F0-XX-W2A-F_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	752.4	761.5	764.5	763.0	769.1
115°	852.5	857.1	855.6	858.6	858.6
117.5°	942.0	948.1	952.6	951.1	951.1
120°	1033.0	1039.1	1037.6	1040.6	1037.6
122.5°	1118.0	1121.0	1124.1	1125.6	1122.5
125°	1198.4	1204.5	1201.4	1206.0	1207.5
127.5°	1275.7	1277.3	1284.8	1283.3	1281.8
130°	1350.1	1351.6	1356.1	1357.7	1357.7
132.5°	1418.3	1421.4	1427.4	1429.0	1427.4
135°	1486.6	1485.1	1491.2	1494.2	1497.2
137.5°	1547.3	1547.3	1554.9	1557.9	1556.4
140°	1606.4	1609.5	1612.5	1617.1	1618.6
142.5°	1659.5	1665.6	1667.1	1670.2	1670.2
145°	1714.1	1718.7	1718.7	1720.2	1723.2
147.5°	1756.6	1765.7	1764.2	1765.7	1767.2
150°	1803.6	1809.7	1808.2	1808.2	1809.7
152.5°	1843.1	1847.6	1844.6	1847.6	1846.1
155°	1879.5	1881.0	1876.5	1882.5	1878.0
157.5°	1911.3	1911.3	1905.3	1912.9	1905.3
160°	1938.7	1934.1	1932.6	1941.7	1932.6
162.5°	1962.9	1956.9	1955.3	1964.4	1953.8
165°	1982.6	1975.1	1975.1	1987.2	1973.5
167.5°	1999.3	1991.7	1990.2	2003.9	1988.7
170°	2013.0	2003.9	2005.4	2017.5	2002.4
172.5°	2022.1	2013.0	2014.5	2026.6	2009.9
175°	2028.2	2019.0	2020.6	2034.2	2016.0
177.5°	2032.7	2022.1	2025.1	2037.3	2019.0
180°	2028.2	2028.2	2028.2	2028.2	2028.2

(END OF REPORT)