

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: P1034165

Luminaire Tested: S124RDIW-B575D1560UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034165
REPORT IS A COMBINATION OF REPORTS P1000591 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B575D1560UB30-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

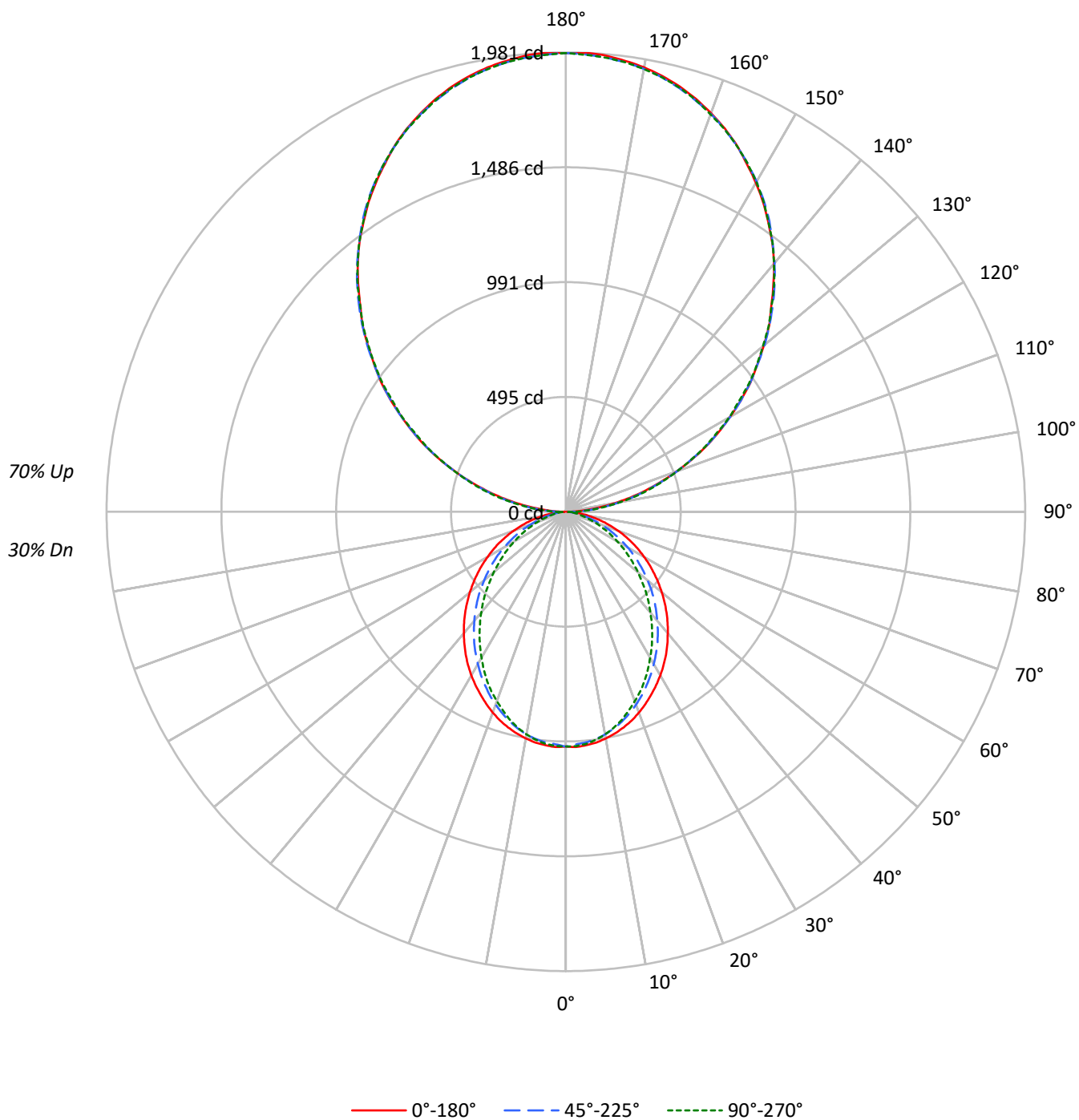
Lumens per Lamp: N/A
Luminaire Lumens: 7832.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1034165

CATALOG NUMBER: S124RDIW-B575D1560UB30-4F0-XX-W2A-F1

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	48	64	55	48	43	44	39	35	33	30	28	24	22	20
5	65	54	46	41	58	49	42	37	39	34	31	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	40	32	27	46	36	29	25	29	24	21	22	19	17	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	17	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8255	8255	8255
5°	8255	8009	8010
10°	8185	7757	7665
15°	8073	7442	7257
20°	7925	7084	6791
25°	7741	6696	6337
30°	7561	6301	5826
35°	7363	5901	5328
40°	7127	5470	4815
45°	6907	5043	4308
50°	6655	4576	3792
55°	6384	4098	3261
60°	6082	3589	2736
65°	5791	3006	2230
70°	5379	2393	1704
75°	4847	1741	1192
80°	4047	1069	857
85°	3049	615	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6907 cd/sqm

TEST NUMBER: P1034165

CATALOG NUMBER: S124RDIW-B575D1560UB30-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	1.2
10°-20°	265.4	3.4
20°-30°	383.2	4.9
30°-40°	434.3	5.5
40°-50°	419.3	5.4
50°-60°	348.6	4.5
60°-70°	240.6	3.1
70°-80°	121.6	1.6
80°-90°	35.1	0.4
90°-100°	129.0	1.6
100°-110°	386.2	4.9
110°-120°	656.1	8.4
120°-130°	865.3	11.0
130°-140°	971.9	12.4
140°-150°	955.2	12.2
150°-160°	803.4	10.3
160°-170°	534.5	6.8
170°-180°	187.2	2.4
0°-30°	743.8	9.5
0°-40°	1178.0	15.0
0°-60°	1945.9	24.8
0°-90°	2343.2	29.9
90°-120°	1171.3	15.0
90°-150°	3963.7	50.6
90°-180°	5489.0	70.1
0°-180°	7832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1012	1012	1012	1012	1012	
5°	1011	1008	998	1006	1004	96
15°	963	956	936	935	929	271
25°	870	856	825	812	804	401
35°	753	728	689	663	649	470
45°	614	585	539	501	487	473
55°	465	434	384	343	329	416
65°	316	283	233	200	191	312
75°	168	140	103	85	81	177
85°	42	26	24	22	22	46
90°	5	21	34	43	46	9
95°	92	106	116	121	121	99
105°	356	358	364	369	373	378
115°	667	667	664	662	661	658
125°	972	972	970	967	964	866
135°	1253	1262	1262	1259	1254	969
145°	1522	1528	1530	1528	1524	953
155°	1744	1744	1743	1749	1743	803
165°	1899	1894	1891	1900	1894	535
175°	1975	1968	1966	1977	1966	188
180°	1978	1978	1978	1978	1978	

TEST NUMBER: P1034165

CATALOG NUMBER: S124RDIW-B575D1560UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1012.3	1012.3	1012.3	1012.3	1012.3
2.5°	1015.4	1012.3	1003.8	1012.3	1011.5
5°	1010.7	1007.6	998.3	1006.1	1004.5
7.5°	1003.8	1000.7	989.0	994.5	992.1
10°	992.9	989.0	975.1	978.2	975.1
12.5°	979.0	974.3	957.3	958.8	954.2
15°	962.7	955.7	936.3	934.8	929.4
17.5°	944.1	934.0	911.5	907.6	899.9
20°	921.6	911.5	885.2	879.0	868.9
22.5°	896.8	885.2	856.5	846.4	838.7
25°	870.4	856.5	824.7	811.5	803.8
27.5°	843.3	826.3	792.9	777.4	766.6
30°	814.6	795.3	758.8	739.5	727.0
32.5°	784.4	761.9	723.9	700.7	689.1
35°	752.6	727.8	689.1	662.7	648.8
37.5°	719.3	693.7	651.1	622.4	608.5
40°	683.6	658.1	613.9	581.3	567.4
42.5°	649.5	622.4	575.9	542.6	527.8
45°	613.9	585.2	538.7	500.7	486.8
47.5°	577.5	548.0	499.9	460.4	444.9
50°	540.2	510.0	460.4	421.7	406.9
52.5°	502.3	472.8	421.7	382.1	366.6
55°	465.1	434.1	383.7	343.4	328.6
57.5°	428.6	396.1	346.5	305.4	294.5
60°	389.1	358.1	308.5	268.2	255.8
62.5°	353.4	320.9	269.7	233.3	224.0
65°	316.2	282.9	233.3	200.0	190.7
67.5°	277.5	245.7	199.2	169.7	158.9
70°	241.1	208.5	164.3	138.7	131.0
72.5°	202.3	173.6	132.5	111.6	104.6
75°	168.2	139.5	103.1	85.3	80.6
77.5°	132.5	107.7	76.7	64.3	62.8
80°	98.4	76.0	52.7	50.4	49.6
82.5°	69.0	48.8	38.0	36.4	35.7
85°	41.9	26.4	24.0	22.5	22.5
87.5°	17.8	11.6	10.9	10.1	10.9
90°	4.6	21.4	33.7	42.8	45.9
92.5°	39.8	59.7	67.3	71.9	73.4
95°	91.8	105.6	116.3	120.9	120.9
97.5°	146.9	159.1	171.4	177.5	177.5
100°	214.2	220.3	234.1	237.1	237.1
102.5°	284.6	286.1	298.3	302.9	304.5
105°	356.5	358.0	364.1	368.7	373.3
107.5°	431.4	433.0	434.5	440.6	439.1
110°	507.9	511.0	509.5	506.4	511.0

TEST NUMBER: P1034165

CATALOG NUMBER: S124RDIW-B575D1560UB30-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	587.5	587.5	584.4	584.4	584.4
115°	667.0	667.0	664.0	662.5	660.9
117.5°	742.0	742.0	740.5	735.9	731.3
120°	817.0	823.1	818.5	810.9	813.9
122.5°	895.0	896.5	895.0	890.4	882.8
125°	971.5	971.5	970.0	966.9	963.9
127.5°	1040.4	1044.9	1041.9	1038.8	1037.3
130°	1113.8	1118.4	1118.4	1115.3	1109.2
132.5°	1188.8	1191.8	1190.3	1187.2	1185.7
135°	1253.0	1262.2	1262.2	1259.1	1254.5
137.5°	1324.9	1329.5	1332.6	1328.0	1329.5
140°	1396.8	1399.9	1399.9	1398.4	1396.8
142.5°	1462.6	1465.7	1464.1	1464.1	1464.1
145°	1522.3	1528.4	1529.9	1528.4	1523.8
147.5°	1583.5	1591.1	1589.6	1588.1	1586.5
150°	1638.6	1644.7	1644.7	1644.7	1643.1
152.5°	1690.6	1693.6	1695.2	1699.8	1695.2
155°	1744.1	1744.1	1742.6	1748.7	1742.6
157.5°	1790.0	1787.0	1787.0	1791.5	1787.0
160°	1829.8	1828.3	1826.7	1831.3	1823.7
162.5°	1866.5	1861.9	1860.4	1869.6	1861.9
165°	1898.6	1894.1	1891.0	1900.2	1894.1
167.5°	1924.7	1918.5	1918.5	1927.7	1918.5
170°	1946.1	1938.4	1939.9	1949.1	1938.4
172.5°	1961.4	1955.2	1955.2	1966.0	1955.2
175°	1975.1	1967.5	1966.0	1976.7	1966.0
177.5°	1981.3	1973.6	1973.6	1984.3	1972.1
180°	1978.2	1978.2	1978.2	1978.2	1978.2

(END OF REPORT)