

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: P1033017

Luminaire Tested: S124RDIW-B575D1560UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033017
REPORT IS A COMBINATION OF REPORTS P1000584 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_3500K
Description: Define 4 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

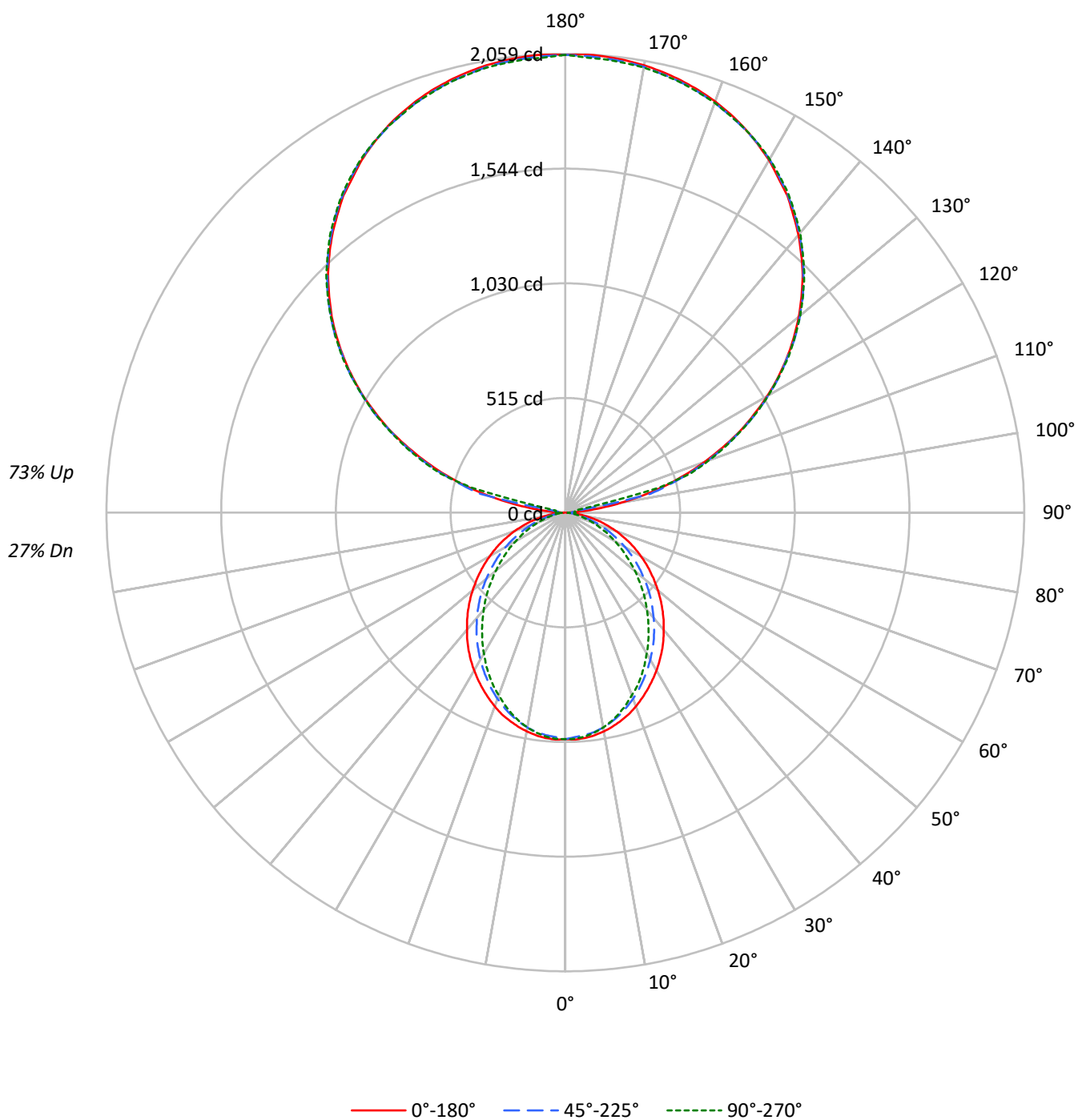
Lumens per Lamp: N/A
Luminaire Lumens: 8711.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1033017

CATALOG NUMBER: S124RDIW-B575D1560UB2750-4F0-XX-W2A-F_3500K

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35				27
1	93	89	85	82	83	79	76	73	62	60	58	46	45	43	31	30	30				23
2	85	78	72	67	75	69	65	60	54	51	48	40	38	36	28	26	25				20
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	25	23	22				17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	20	19				14
5	65	54	46	40	58	48	42	37	38	33	30	29	25	23	20	18	16				13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	14				11
7	55	43	36	30	49	39	32	28	31	26	23	23	20	18	16	14	13				10
8	51	39	32	27	45	35	29	24	28	23	20	21	18	16	15	13	11				9
9	47	36	28	24	42	32	26	22	26	21	18	20	16	14	14	12	10				8
10	44	33	26	21	39	29	23	19	24	19	16	18	15	13	13	11	9				7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8290	8290	8290
5°	8291	8044	8044
10°	8221	7790	7698
15°	8108	7474	7287
20°	7959	7114	6820
25°	7775	6724	6364
30°	7594	6328	5852
35°	7394	5926	5350
40°	7159	5493	4836
45°	6936	5064	4326
50°	6684	4596	3809
55°	6412	4115	3275
60°	6109	3604	2748
65°	5816	3019	2240
70°	5401	2403	1712
75°	4867	1748	1198
80°	4068	1073	860
85°	3056	618	474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6936 cd/sqm

TEST NUMBER: P1033017

CATALOG NUMBER: S124RDIW-B575D1560UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	1.1
10°-20°	266.5	3.1
20°-30°	384.8	4.4
30°-40°	436.1	5.0
40°-50°	421.1	4.8
50°-60°	350.1	4.0
60°-70°	241.6	2.8
70°-80°	122.1	1.4
80°-90°	35.2	0.4
90°-100°	68.2	0.8
100°-110°	449.2	5.2
110°-120°	857.7	9.8
120°-130°	1088.8	12.5
130°-140°	1164.8	13.4
140°-150°	1089.2	12.5
150°-160°	878.3	10.1
160°-170°	566.4	6.5
170°-180°	195.2	2.2
0°-30°	747.0	8.6
0°-40°	1183.1	13.6
0°-60°	1954.3	22.4
0°-90°	2353.3	27.0
90°-120°	1375.0	15.8
90°-150°	4717.8	54.2
90°-180°	6358.0	73.0
0°-180°	8711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1015	1012	1003	1010	1009	96
15°	967	960	940	939	933	272
25°	874	860	828	815	807	403
35°	756	731	692	666	652	472
45°	616	588	541	503	489	475
55°	467	436	385	345	330	418
65°	318	284	234	201	192	314
75°	169	140	104	86	81	178
85°	42	26	24	23	23	46
90°	5	22	34	43	46	7
95°	84	32	34	43	45	104
105°	463	472	480	493	438	484
115°	864	868	867	870	870	850
125°	1214	1220	1217	1222	1223	1084
135°	1506	1504	1511	1514	1517	1160
145°	1736	1741	1741	1743	1746	1085
155°	1904	1906	1901	1907	1902	878
165°	2008	2001	2001	2013	1999	568
175°	2055	2045	2047	2061	2042	196
180°	2055	2055	2055	2055	2055	

TEST NUMBER: P1033017

CATALOG NUMBER: S124RDIW-B575D1560UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.6	1016.6	1016.6	1016.6	1016.6
2.5°	1019.7	1016.6	1008.1	1016.6	1015.8
5°	1015.1	1011.9	1002.6	1010.4	1008.8
7.5°	1008.1	1004.9	993.3	998.7	996.4
10°	997.2	993.3	979.3	982.4	979.3
12.5°	983.1	978.5	961.3	962.9	958.2
15°	966.8	959.8	940.3	938.8	933.3
17.5°	948.1	938.0	915.4	911.5	903.7
20°	925.5	915.4	889.0	882.7	872.6
22.5°	900.6	889.0	860.2	850.0	842.3
25°	874.2	860.2	828.2	815.0	807.2
27.5°	846.9	829.8	796.3	780.8	769.9
30°	818.1	798.7	762.1	742.6	730.2
32.5°	787.8	765.2	727.0	703.7	692.0
35°	755.8	730.9	692.0	665.5	651.5
37.5°	722.4	696.7	653.9	625.1	611.1
40°	686.6	660.9	616.5	583.8	569.8
42.5°	652.3	625.1	578.4	544.9	530.1
45°	616.5	587.7	541.0	502.9	488.8
47.5°	579.9	550.3	502.1	462.4	446.8
50°	542.6	512.2	462.4	423.5	408.7
52.5°	504.4	474.8	423.5	383.8	368.2
55°	467.1	435.9	385.3	344.8	330.1
57.5°	430.5	397.8	348.0	306.7	295.8
60°	390.8	359.6	309.8	269.3	256.9
62.5°	355.0	322.3	270.9	234.3	225.0
65°	317.6	284.1	234.3	200.8	191.5
67.5°	278.7	246.8	200.1	170.5	159.6
70°	242.1	209.4	165.0	139.3	131.6
72.5°	203.2	174.4	133.1	112.1	105.1
75°	168.9	140.1	103.5	85.6	81.0
77.5°	133.1	108.2	77.1	64.6	63.1
80°	98.9	76.3	52.9	50.6	49.8
82.5°	69.3	49.0	38.1	36.6	35.8
85°	42.0	26.5	24.1	22.6	22.6
87.5°	17.9	11.7	10.9	10.1	10.9
90°	4.6	21.5	33.8	43.0	46.1
92.5°	23.1	20.0	32.3	41.5	41.5
95°	84.5	32.3	33.8	43.0	44.6
97.5°	161.4	195.2	33.8	41.5	43.0
100°	252.0	279.7	67.6	41.5	43.0
102.5°	353.5	371.9	390.3	44.6	44.6
105°	462.6	471.8	479.5	493.3	438.0
107.5°	562.4	567.1	577.8	585.5	591.6
110°	663.9	668.5	677.7	680.8	685.4

TEST NUMBER: P1033017

CATALOG NUMBER: S124RDIW-B575D1560UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	762.2	771.4	774.5	773.0	779.1
115°	863.7	868.3	866.7	869.8	869.8
117.5°	954.3	960.5	965.1	963.5	963.5
120°	1046.5	1052.7	1051.1	1054.2	1051.1
122.5°	1132.6	1135.7	1138.7	1140.3	1137.2
125°	1214.0	1220.2	1217.1	1221.7	1223.3
127.5°	1292.4	1293.9	1301.6	1300.1	1298.6
130°	1367.7	1369.2	1373.9	1375.4	1375.4
132.5°	1436.9	1439.9	1446.1	1447.6	1446.1
135°	1506.0	1504.5	1510.6	1513.7	1516.8
137.5°	1567.5	1567.5	1575.2	1578.2	1576.7
140°	1627.4	1630.5	1633.6	1638.2	1639.7
142.5°	1681.2	1687.3	1688.9	1692.0	1692.0
145°	1736.5	1741.1	1741.1	1742.7	1745.7
147.5°	1779.6	1788.8	1787.2	1788.8	1790.3
150°	1827.2	1833.3	1831.8	1831.8	1833.3
152.5°	1867.1	1871.8	1868.7	1871.8	1870.2
155°	1904.0	1905.6	1901.0	1907.1	1902.5
157.5°	1936.3	1936.3	1930.2	1937.8	1930.2
160°	1964.0	1959.4	1957.8	1967.0	1957.8
162.5°	1988.6	1982.4	1980.9	1990.1	1979.3
165°	2008.5	2000.8	2000.8	2013.1	1999.3
167.5°	2025.4	2017.8	2016.2	2030.0	2014.7
170°	2039.3	2030.0	2031.6	2043.9	2028.5
172.5°	2048.5	2039.3	2040.8	2053.1	2036.2
175°	2054.6	2045.4	2046.9	2060.8	2042.3
177.5°	2059.2	2048.5	2051.6	2063.9	2045.4
180°	2054.6	2054.6	2054.6	2054.6	2054.6

(END OF REPORT)