

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: P1032936

Luminaire Tested: S124RDIW-B1195D770UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032936
REPORT IS A COMBINATION OF REPORTS P1000231 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B1195D770UB2750-4F0-XX-W2A-F_3000K
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

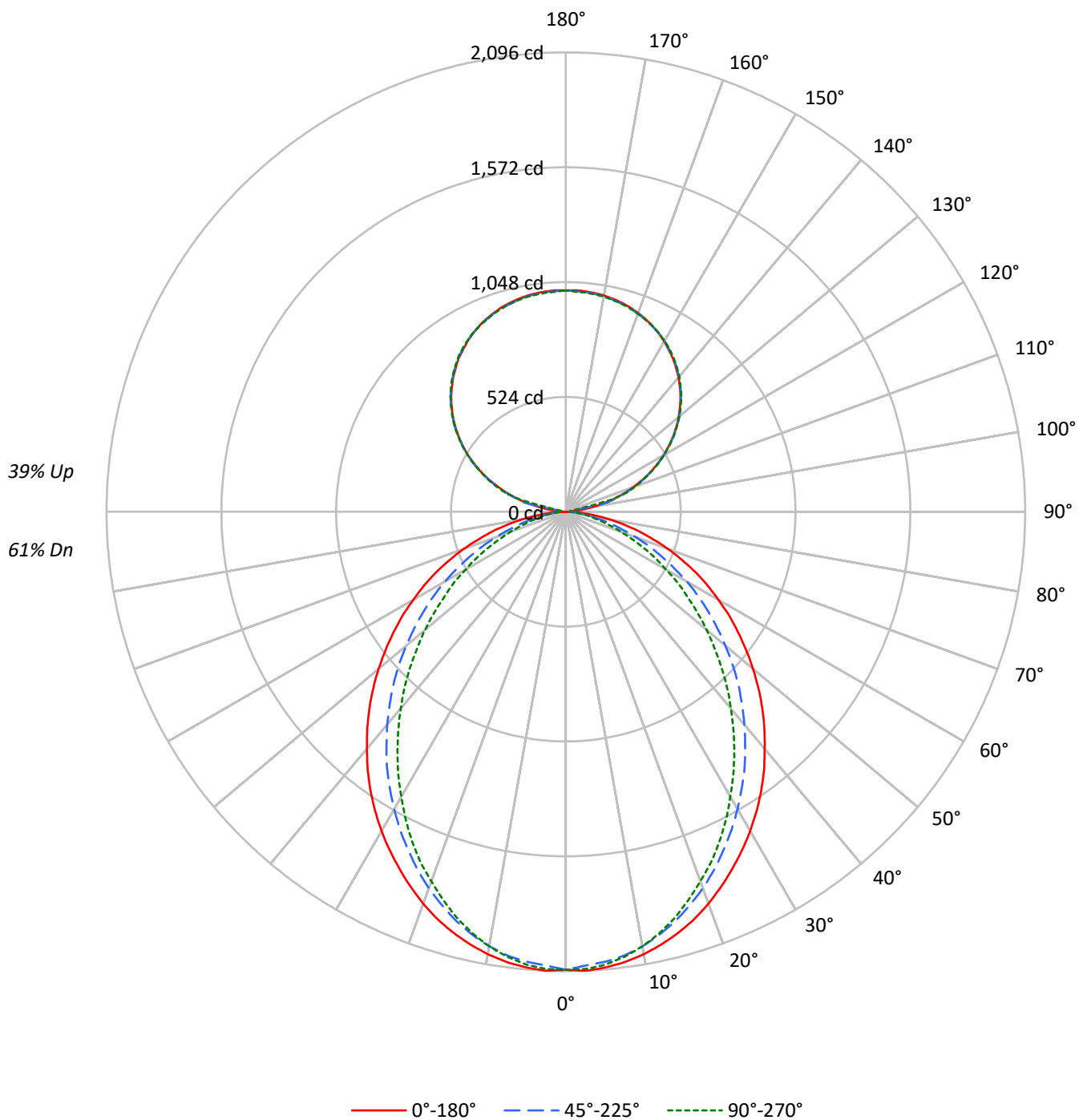
Lumens per Lamp: N/A
Luminaire Lumens: 7955.0 lumens
Efficiency: N/A
Efficacy: 94.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 84.5
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: P1032936

CATALOG NUMBER: S124RDIW-B1195D770UB2750-4F0-XX-W2A-F_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1032936

CATALOG NUMBER: S124RDIW-B1195D770UB2750-4F0-XX-W2A-F_3000K

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66
1	101	96	92	89	94	90	87	84	79	76	74	68	67	65	59	58	56
2	92	84	78	73	86	79	74	69	70	65	62	61	57	55	52	50	48
3	84	75	67	61	78	70	64	58	62	57	52	54	50	47	47	44	41
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36
5	71	59	51	45	66	56	48	43	49	44	39	43	39	35	38	34	31
6	65	53	45	39	61	50	43	38	45	39	34	39	35	31	34	31	28
7	61	48	40	35	57	46	38	33	41	35	30	36	31	28	31	28	25
8	56	44	36	31	53	42	34	30	37	31	27	33	28	25	29	25	22
9	53	40	33	28	49	38	31	27	34	28	24	30	26	22	27	23	20
10	49	37	30	25	46	35	28	24	32	26	22	28	24	20	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17042	17042	17042
5°	17044	16536	16538
10°	16899	16014	15824
15°	16667	15365	14981
20°	16362	14624	14021
25°	15983	13825	13083
30°	15611	13009	12029
35°	15202	12183	11000
40°	14716	11293	9942
45°	14259	10411	8895
50°	13741	9447	7830
55°	13180	8459	6733
60°	12557	7410	5648
65°	11957	6207	4604
70°	11104	4941	3518
75°	10008	3594	2460
80°	8357	2207	1769
85°	6287	1271	973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14259 cd/sqm

TEST NUMBER: P1032936

CATALOG NUMBER: S124RDIW-B1195D770UB2750-4F0-XX-W2A-F_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	2.5
10°-20°	547.9	6.9
20°-30°	791.1	9.9
30°-40°	896.6	11.3
40°-50°	865.7	10.9
50°-60°	719.7	9.0
60°-70°	496.8	6.2
70°-80°	251.0	3.2
80°-90°	65.8	0.8
90°-100°	33.5	0.4
100°-110°	220.7	2.8
110°-120°	421.4	5.3
120°-130°	535.0	6.7
130°-140°	572.3	7.2
140°-150°	535.2	6.7
150°-160°	431.6	5.4
160°-170°	278.3	3.5
170°-180°	95.9	1.2
0°-30°	1535.6	19.3
0°-40°	2432.1	30.6
0°-60°	4017.5	50.5
0°-90°	4831.1	60.7
90°-120°	675.6	8.5
90°-150°	2318.1	29.1
90°-180°	3124.0	39.3
0°-180°	7955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2087	2080	2061	2077	2074	198
15°	1988	1973	1933	1930	1919	560
25°	1797	1768	1703	1676	1660	828
35°	1554	1503	1423	1368	1339	971
45°	1267	1208	1112	1034	1005	977
55°	960	896	792	709	678	859
65°	653	584	482	413	394	645
75°	347	288	213	176	166	366
85°	86	54	50	46	46	95
90°	2	11	17	21	23	7
95°	42	16	17	21	22	51
105°	227	232	236	242	215	238
115°	424	427	426	427	427	418
125°	596	600	598	600	601	533
135°	740	739	742	744	745	570
145°	853	856	856	856	858	533
155°	936	936	934	937	935	431
165°	987	983	983	989	982	279
175°	1010	1005	1006	1013	1004	96
180°	1010	1010	1010	1010	1010	

TEST NUMBER: P1032936

CATALOG NUMBER: S124RDIW-B1195D770UB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2089.9	2089.9	2089.9	2089.9	2089.9
2.5°	2096.3	2089.9	2072.3	2089.9	2088.3
5°	2086.7	2080.3	2061.1	2077.1	2073.9
7.5°	2072.3	2065.9	2041.9	2053.1	2048.3
10°	2049.9	2041.9	2013.1	2019.5	2013.1
12.5°	2021.1	2011.5	1976.3	1979.5	1969.9
15°	1987.5	1973.1	1933.1	1929.9	1918.7
17.5°	1949.1	1928.3	1881.9	1873.9	1857.9
20°	1902.7	1881.9	1827.5	1814.7	1793.9
22.5°	1851.5	1827.5	1768.3	1747.5	1731.5
25°	1797.1	1768.3	1702.7	1675.5	1659.5
27.5°	1741.1	1705.9	1637.1	1605.1	1582.6
30°	1681.9	1641.9	1566.6	1526.6	1501.0
32.5°	1619.5	1573.0	1494.6	1446.6	1422.6
35°	1553.8	1502.6	1422.6	1368.2	1339.4
37.5°	1485.0	1432.2	1344.2	1285.0	1256.2
40°	1411.4	1358.6	1267.4	1200.2	1171.4
42.5°	1341.0	1285.0	1189.0	1120.2	1089.8
45°	1267.4	1208.2	1112.2	1033.8	1005.0
47.5°	1192.2	1131.4	1032.2	950.5	918.5
50°	1115.4	1053.0	950.5	870.5	840.1
52.5°	1037.0	976.2	870.5	788.9	756.9
55°	960.2	896.1	792.1	708.9	678.5
57.5°	884.9	817.7	715.3	630.5	608.1
60°	803.3	739.3	636.9	553.7	528.1
62.5°	729.7	662.5	556.9	481.7	462.5
65°	652.9	584.1	481.7	412.9	393.7
67.5°	572.9	507.3	411.3	350.5	328.1
70°	497.7	430.5	339.3	286.4	270.4
72.5°	417.7	358.5	273.6	230.4	216.0
75°	347.3	288.0	212.8	176.0	166.4
77.5°	273.6	222.4	158.4	132.8	129.6
80°	203.2	156.8	108.8	104.0	102.4
82.5°	142.4	100.8	78.4	75.2	73.6
85°	86.4	54.4	49.6	46.4	46.4
87.5°	36.8	24.0	22.4	20.8	22.4
90°	2.3	10.6	16.6	21.1	22.7
92.5°	11.3	9.8	15.9	20.4	20.4
95°	41.5	15.9	16.6	21.1	21.9
97.5°	79.3	95.9	16.6	20.4	21.1
100°	123.8	137.4	33.2	20.4	21.1
102.5°	173.7	182.7	191.8	21.9	21.9
105°	227.3	231.8	235.6	242.4	215.2
107.5°	276.4	278.6	283.9	287.7	290.7
110°	326.2	328.5	333.0	334.5	336.8

TEST NUMBER: P1032936

CATALOG NUMBER: S124RDIW-B1195D770UB2750-4F0-XX-W2A-F_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	374.5	379.1	380.6	379.8	382.8
115°	424.4	426.6	425.9	427.4	427.4
117.5°	468.9	471.9	474.2	473.4	473.4
120°	514.2	517.2	516.5	518.0	516.5
122.5°	556.5	558.0	559.5	560.3	558.8
125°	596.5	599.5	598.0	600.3	601.1
127.5°	635.0	635.8	639.6	638.8	638.1
130°	672.0	672.8	675.0	675.8	675.8
132.5°	706.0	707.5	710.5	711.3	710.5
135°	740.0	739.2	742.3	743.8	745.3
137.5°	770.2	770.2	774.0	775.5	774.7
140°	799.6	801.1	802.7	804.9	805.7
142.5°	826.1	829.1	829.8	831.4	831.4
145°	853.3	855.5	855.5	856.3	857.8
147.5°	874.4	878.9	878.2	878.9	879.7
150°	897.8	900.8	900.1	900.1	900.8
152.5°	917.4	919.7	918.2	919.7	918.9
155°	935.6	936.3	934.0	937.1	934.8
157.5°	951.4	951.4	948.4	952.2	948.4
160°	965.0	962.7	962.0	966.5	962.0
162.5°	977.1	974.1	973.3	977.8	972.6
165°	986.9	983.1	983.1	989.2	982.4
167.5°	995.2	991.4	990.7	997.5	989.9
170°	1002.0	997.5	998.2	1004.3	996.7
172.5°	1006.5	1002.0	1002.8	1008.8	1000.5
175°	1009.6	1005.0	1005.8	1012.6	1003.5
177.5°	1011.8	1006.5	1008.0	1014.1	1005.0
180°	1009.6	1009.6	1009.6	1009.6	1009.6

(END OF REPORT)