

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: P1032683

Luminaire Tested: S124DIW-B350D770UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032683
REPORT IS A COMBINATION OF REPORTS P997565 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B350D770UB2750-4F0-XX-W2A-D_5000K
Description: Define 4 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

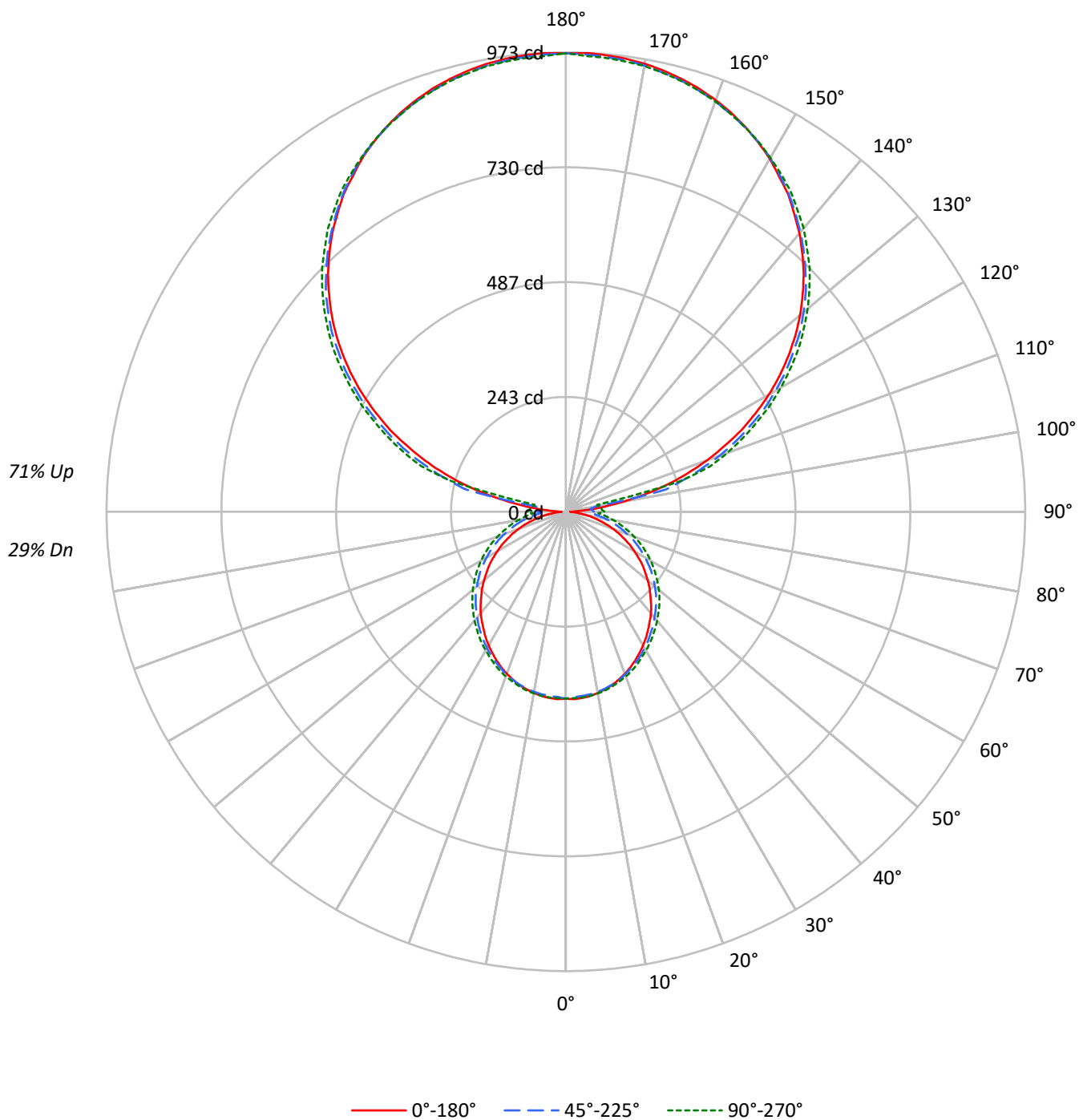
Lumens per Lamp: N/A
Luminaire Lumens: 4355.0 lumens
Efficiency: N/A
Efficacy: 120.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
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: P1032683

CATALOG NUMBER: S124DIW-B350D770UB2750-4F0-XX-W2A-D_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1032683

CATALOG NUMBER: S124DIW-B350D770UB2750-4F0-XX-W2A-D_5000K

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	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37			29
1	92	88	84	80	83	79	75	72	62	59	57	46	44	43	31	30	30			23
2	84	76	70	65	75	69	63	59	54	50	47	40	38	35	27	26	24			19
3	76	67	60	54	68	60	54	49	47	43	39	35	32	30	24	22	21			16
4	70	59	51	45	62	53	46	41	42	37	33	31	28	25	21	19	17			13
5	64	52	44	38	57	47	40	35	37	32	28	28	24	22	19	17	15			11
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13			10
7	54	42	34	29	48	38	31	26	30	25	21	23	19	16	16	13	12			9
8	50	38	30	25	45	34	28	23	27	22	19	21	17	14	14	12	10			8
9	46	34	27	22	41	31	25	20	25	20	17	19	15	13	13	11	9			7
10	43	31	24	20	39	28	22	18	23	18	15	17	14	12	12	10	8			6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3227	3227	3227
5°	3235	3143	3148
10°	3214	3081	3072
15°	3184	3011	2986
20°	3140	2936	2902
25°	3090	2853	2812
30°	3035	2770	2720
35°	2974	2686	2638
40°	2925	2605	2554
45°	2851	2530	2478
50°	2789	2444	2399
55°	2725	2361	2308
60°	2625	2258	2222
65°	2516	2147	2119
70°	2383	2020	2000
75°	2196	1878	1887
80°	1987	1734	1769
85°	1710	1589	1673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 3033 cd/sqm

TEST NUMBER: P1032683

CATALOG NUMBER: S124DIW-B350D770UB2750-4F0-XX-W2A-D_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.5	0.9
10°-20°	107.4	2.5
20°-30°	162.4	3.7
30°-40°	196.5	4.5
40°-50°	207.7	4.8
50°-60°	195.5	4.5
60°-70°	162.2	3.7
70°-80°	113.8	2.6
80°-90°	66.2	1.5
90°-100°	70.4	1.6
100°-110°	240.5	5.5
110°-120°	424.2	9.7
120°-130°	525.2	12.1
130°-140°	555.0	12.7
140°-150°	515.5	11.8
150°-160°	415.0	9.5
160°-170°	267.6	6.1
170°-180°	92.2	2.1
0°-30°	307.3	7.1
0°-40°	503.8	11.6
0°-60°	907.0	20.8
0°-90°	1249.3	28.7
90°-120°	735.2	16.9
90°-150°	2330.8	53.5
90°-180°	3106.0	71.3
0°-180°	4355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	396	396	396	396	396	
5°	396	395	392	395	395	38
15°	380	380	379	383	382	107
25°	347	350	351	356	357	160
35°	304	309	314	320	321	190
45°	253	262	270	278	280	196
55°	198	208	221	230	233	177
65°	137	152	167	178	181	136
75°	76	93	111	124	128	81
85°	24	42	62	75	80	24
90°	9	35	60	77	82	7
95°	46	36	54	71	76	54
105°	223	236	256	273	251	233
115°	411	417	430	442	445	404
125°	575	578	588	598	602	514
135°	712	712	718	726	730	549
145°	821	823	823	826	829	513
155°	900	900	898	901	899	415
165°	949	945	945	951	945	268
175°	971	966	967	974	965	92
180°	971	971	971	971	971	

TEST NUMBER: P1032683

CATALOG NUMBER: S124DIW-B350D770UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	395.7	395.7	395.7	395.7	395.7
2.5°	397.4	396.1	392.6	395.7	395.2
5°	396.1	394.8	391.7	395.2	394.8
7.5°	393.5	392.6	389.9	393.9	393.5
10°	389.9	389.5	387.3	391.2	390.8
12.5°	385.0	385.0	383.7	387.3	387.3
15°	379.7	380.2	378.8	382.8	382.4
17.5°	372.6	374.0	373.5	377.5	377.1
20°	365.1	366.4	366.9	371.3	371.3
22.5°	356.7	358.5	359.3	363.8	364.7
25°	347.4	350.0	351.4	356.2	356.7
27.5°	337.2	341.2	342.9	347.4	347.8
30°	327.0	330.5	333.6	338.5	339.4
32.5°	315.9	320.3	323.9	329.7	330.5
35°	304.0	309.3	313.7	319.9	321.2
37.5°	292.0	298.2	303.5	309.7	311.0
40°	280.5	286.2	292.4	299.1	300.9
42.5°	267.2	273.8	281.4	288.9	290.2
45°	253.4	261.9	270.3	277.8	280.0
47.5°	240.6	249.0	258.8	266.3	268.9
50°	226.4	236.2	245.9	254.8	257.4
52.5°	212.2	222.0	233.5	242.4	245.0
55°	198.5	207.8	221.1	230.0	232.6
57.5°	183.0	194.5	207.4	218.0	220.2
60°	167.9	179.4	194.1	204.3	207.8
62.5°	153.3	166.2	180.8	191.0	194.5
65°	137.4	151.5	166.6	177.7	181.2
67.5°	122.3	137.4	153.3	164.4	167.9
70°	106.8	121.8	138.7	150.6	153.7
72.5°	91.7	107.2	125.4	136.9	140.5
75°	76.2	92.6	111.2	123.6	127.6
77.5°	61.6	78.9	98.4	110.8	115.2
80°	48.3	66.0	85.5	98.8	102.4
82.5°	35.0	53.6	73.1	86.8	90.8
85°	23.5	42.1	62.0	75.3	79.8
87.5°	14.6	32.8	52.3	65.1	69.1
90°	9.3	35.0	59.9	77.0	82.1
92.5°	17.5	31.6	56.4	73.2	76.8
95°	45.7	35.6	54.5	70.8	75.6
97.5°	81.5	110.4	52.3	67.5	72.1
100°	124.0	148.6	65.6	65.2	69.0
102.5°	171.9	190.3	215.9	64.1	67.6
105°	222.6	235.7	255.7	273.4	250.8
107.5°	269.8	279.4	300.0	314.7	320.7
110°	317.2	325.6	345.5	357.1	362.8

TEST NUMBER: P1032683

CATALOG NUMBER: S124DIW-B350D770UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	363.2	372.9	389.0	398.0	404.4
115°	410.8	416.8	430.3	441.6	444.7
117.5°	453.6	459.1	474.6	483.2	486.8
120°	496.7	500.9	513.1	523.4	525.5
122.5°	537.3	538.8	552.2	561.8	563.4
125°	575.4	577.8	587.5	598.1	601.5
127.5°	612.5	612.7	625.2	632.5	634.9
130°	647.5	647.9	657.1	665.9	668.5
132.5°	680.2	681.3	689.5	697.7	699.7
135°	712.5	711.8	717.8	726.3	730.4
137.5°	741.5	741.0	746.5	754.6	756.1
140°	769.8	770.8	772.7	780.6	783.7
142.5°	794.8	797.7	798.0	804.3	806.0
145°	820.9	822.7	822.7	826.1	829.3
147.5°	841.2	845.2	844.5	845.6	848.1
150°	863.7	866.2	865.5	865.5	866.2
152.5°	882.2	884.4	882.9	884.4	883.7
155°	899.6	900.4	898.2	901.1	898.9
157.5°	914.9	914.9	912.0	915.6	912.0
160°	928.0	925.8	925.1	929.4	925.1
162.5°	939.6	936.7	935.9	940.3	935.2
165°	949.0	945.4	945.4	951.2	944.7
167.5°	957.0	953.4	952.6	959.2	951.9
170°	963.5	959.2	959.9	965.7	958.5
172.5°	967.9	963.5	964.3	970.1	962.1
175°	970.8	966.4	967.2	973.7	965.0
177.5°	973.0	967.9	969.3	975.2	966.4
180°	970.8	970.8	970.8	970.8	970.8

(END OF REPORT)