

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: P1033576

Luminaire Tested: S124DIW-B575D1340UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033576
REPORT IS A COMBINATION OF REPORTS P997720 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B575D1340UB35-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

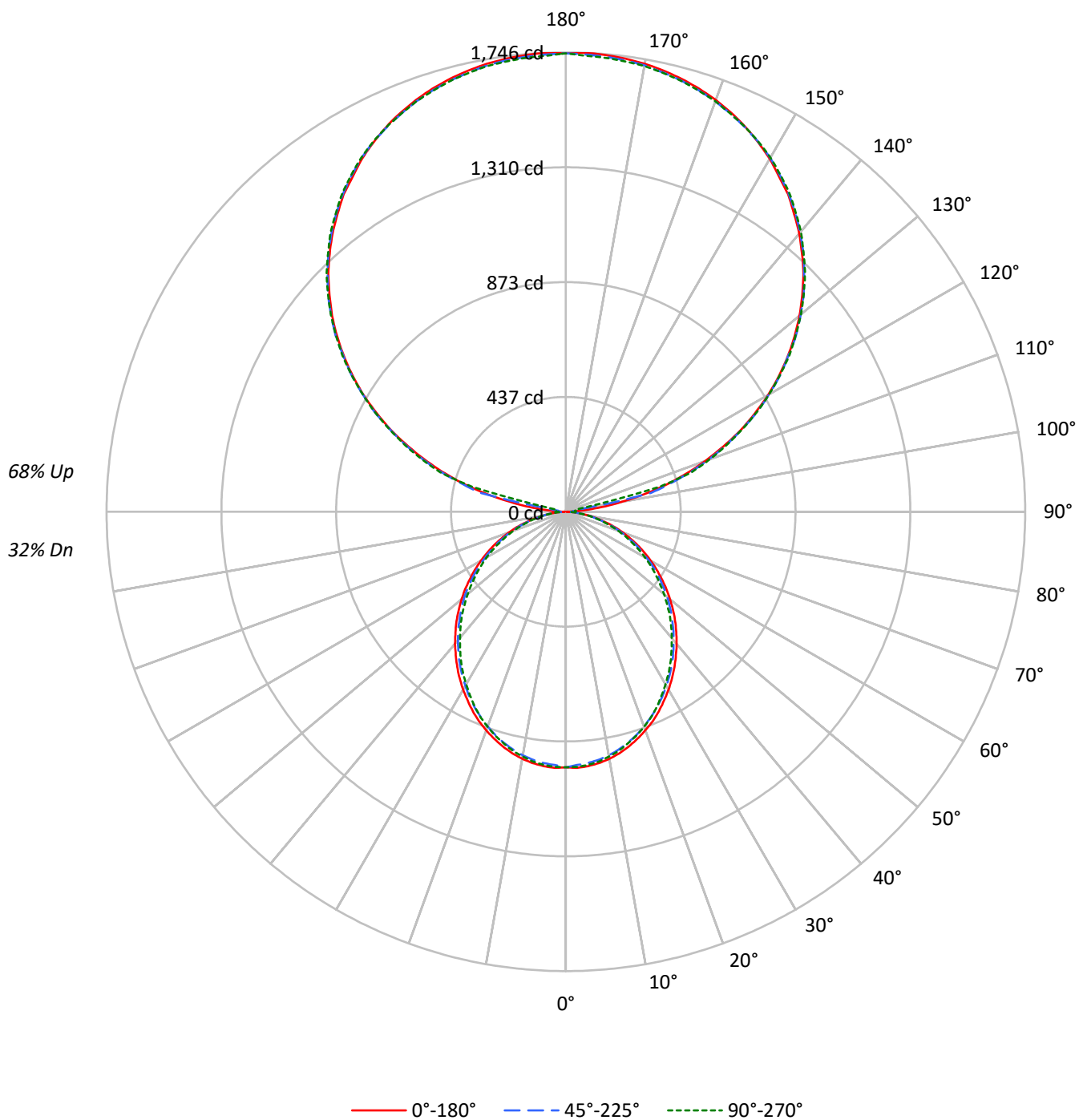
Lumens per Lamp: N/A
Luminaire Lumens: 7888.1 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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

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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7920	7920	7920
5°	7927	7692	7702
10°	7860	7479	7426
15°	7747	7225	7116
20°	7603	6951	6794
25°	7441	6660	6449
30°	7246	6347	6069
35°	7043	6026	5701
40°	6832	5680	5310
45°	6611	5333	4946
50°	6367	4997	4541
55°	6100	4605	4140
60°	5828	4175	3721
65°	5516	3730	3249
70°	5156	3196	2744
75°	4619	2575	2199
80°	3936	1862	1546
85°	3056	1038	832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6611 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	1.2
10°-20°	257.9	3.3
20°-30°	379.6	4.8
30°-40°	441.2	5.6
40°-50°	441.2	5.6
50°-60°	385.9	4.9
60°-70°	286.5	3.6
70°-80°	162.5	2.1
80°-90°	50.2	0.6
90°-100°	57.8	0.7
100°-110°	380.9	4.8
110°-120°	727.3	9.2
120°-130°	923.3	11.7
130°-140°	987.7	12.5
140°-150°	923.6	11.7
150°-160°	744.8	9.4
160°-170°	480.4	6.1
170°-180°	165.5	2.1
0°-30°	729.1	9.2
0°-40°	1170.3	14.8
0°-60°	1997.4	25.3
0°-90°	2496.6	31.7
90°-120°	1166.1	14.8
90°-150°	4000.7	50.7
90°-180°	5391.0	68.3
0°-180°	7888.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	970	967	959	967	966	92
15°	924	921	909	914	911	260
25°	837	831	820	821	818	385
35°	720	714	704	698	694	450
45°	588	582	570	561	559	453
55°	444	442	431	422	417	398
65°	301	297	290	282	278	298
75°	160	156	152	149	149	170
85°	42	42	40	40	40	45
90°	4	18	29	36	39	7
95°	72	27	29	36	38	88
105°	392	400	407	418	371	411
115°	732	736	735	738	738	721
125°	1030	1035	1032	1036	1037	919
135°	1277	1276	1281	1284	1286	984
145°	1473	1476	1476	1478	1480	920
155°	1615	1616	1612	1617	1613	744
165°	1703	1697	1697	1707	1695	481
175°	1742	1734	1736	1748	1732	166
180°	1742	1742	1742	1742	1742	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.3	971.3	971.3	971.3	971.3
2.5°	974.4	972.1	963.5	971.3	970.5
5°	970.5	967.4	958.8	967.4	965.8
7.5°	963.5	960.4	951.1	958.1	957.3
10°	953.4	950.3	940.2	946.4	944.8
12.5°	940.2	937.0	926.1	933.2	930.8
15°	923.8	920.7	909.0	913.7	911.4
17.5°	905.1	901.2	890.3	893.5	891.9
20°	884.1	880.2	868.6	870.9	869.3
22.5°	861.6	856.1	844.4	849.1	846.0
25°	836.6	831.2	820.3	821.1	818.0
27.5°	808.6	803.2	793.1	791.5	787.6
30°	780.6	774.4	764.3	761.2	757.3
32.5°	751.0	745.6	734.7	730.8	726.9
35°	719.9	714.5	703.6	698.1	694.2
37.5°	687.2	682.5	670.9	665.4	660.0
40°	655.3	649.1	637.4	629.6	625.7
42.5°	621.1	618.0	604.7	595.4	593.0
45°	587.6	582.2	569.7	561.1	558.8
47.5°	552.6	548.7	537.0	527.7	521.4
50°	516.8	513.7	502.8	491.9	487.2
52.5°	481.8	477.9	466.2	456.8	450.6
55°	444.4	442.1	431.2	421.8	417.2
57.5°	409.4	407.0	396.1	386.8	382.1
60°	372.8	368.9	358.8	351.8	347.9
62.5°	337.0	333.9	323.0	316.8	312.9
65°	301.2	297.3	289.5	281.7	277.8
67.5°	264.6	261.5	253.7	245.9	245.2
70°	231.1	225.7	219.5	213.2	210.9
72.5°	195.3	189.9	185.2	180.6	178.2
75°	160.3	156.4	152.5	149.4	148.7
77.5°	126.1	124.5	120.6	119.9	117.5
80°	95.7	93.4	91.8	90.3	89.5
82.5°	66.2	65.4	65.4	64.6	63.8
85°	42.0	42.0	40.5	40.5	39.7
87.5°	20.2	19.5	18.7	18.7	18.7
90°	3.9	18.2	28.7	36.5	39.1
92.5°	19.5	16.9	27.4	35.2	35.2
95°	71.7	27.4	28.7	36.5	37.8
97.5°	136.8	165.5	28.7	35.2	36.5
100°	213.7	237.2	57.3	35.2	36.5
102.5°	299.7	315.4	331.0	37.8	37.8
105°	392.3	400.1	406.6	418.3	371.4
107.5°	477.0	480.9	490.0	496.5	501.7
110°	563.0	566.9	574.7	577.3	581.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	646.4	654.2	656.8	655.5	660.7
115°	732.4	736.3	735.0	737.6	737.6
117.5°	809.3	814.5	818.4	817.1	817.1
120°	887.5	892.7	891.4	894.0	891.4
122.5°	960.4	963.0	965.6	967.0	964.3
125°	1029.5	1034.7	1032.1	1036.0	1037.3
127.5°	1096.0	1097.3	1103.8	1102.5	1101.2
130°	1159.8	1161.1	1165.0	1166.3	1166.3
132.5°	1218.5	1221.1	1226.3	1227.6	1226.3
135°	1277.1	1275.8	1281.0	1283.6	1286.2
137.5°	1329.2	1329.2	1335.7	1338.4	1337.1
140°	1380.1	1382.7	1385.3	1389.2	1390.5
142.5°	1425.7	1430.9	1432.2	1434.8	1434.8
145°	1472.6	1476.5	1476.5	1477.8	1480.4
147.5°	1509.1	1516.9	1515.6	1516.9	1518.2
150°	1549.5	1554.7	1553.4	1553.4	1554.7
152.5°	1583.3	1587.3	1584.7	1587.3	1586.0
155°	1614.6	1615.9	1612.0	1617.2	1613.3
157.5°	1642.0	1642.0	1636.8	1643.3	1636.8
160°	1665.4	1661.5	1660.2	1668.1	1660.2
162.5°	1686.3	1681.1	1679.8	1687.6	1678.5
165°	1703.2	1696.7	1696.7	1707.2	1695.4
167.5°	1717.6	1711.1	1709.8	1721.5	1708.5
170°	1729.3	1721.5	1722.8	1733.2	1720.2
172.5°	1737.1	1729.3	1730.6	1741.0	1726.7
175°	1742.3	1734.5	1735.8	1747.5	1731.9
177.5°	1746.2	1737.1	1739.7	1750.2	1734.5
180°	1742.3	1742.3	1742.3	1742.3	1742.3

(END OF REPORT)