

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: P1033006

Luminaire Tested: S124RDIW-B575D1340UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033006
REPORT IS A COMBINATION OF REPORTS P1000539 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B575D1340UB2750-4F0-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

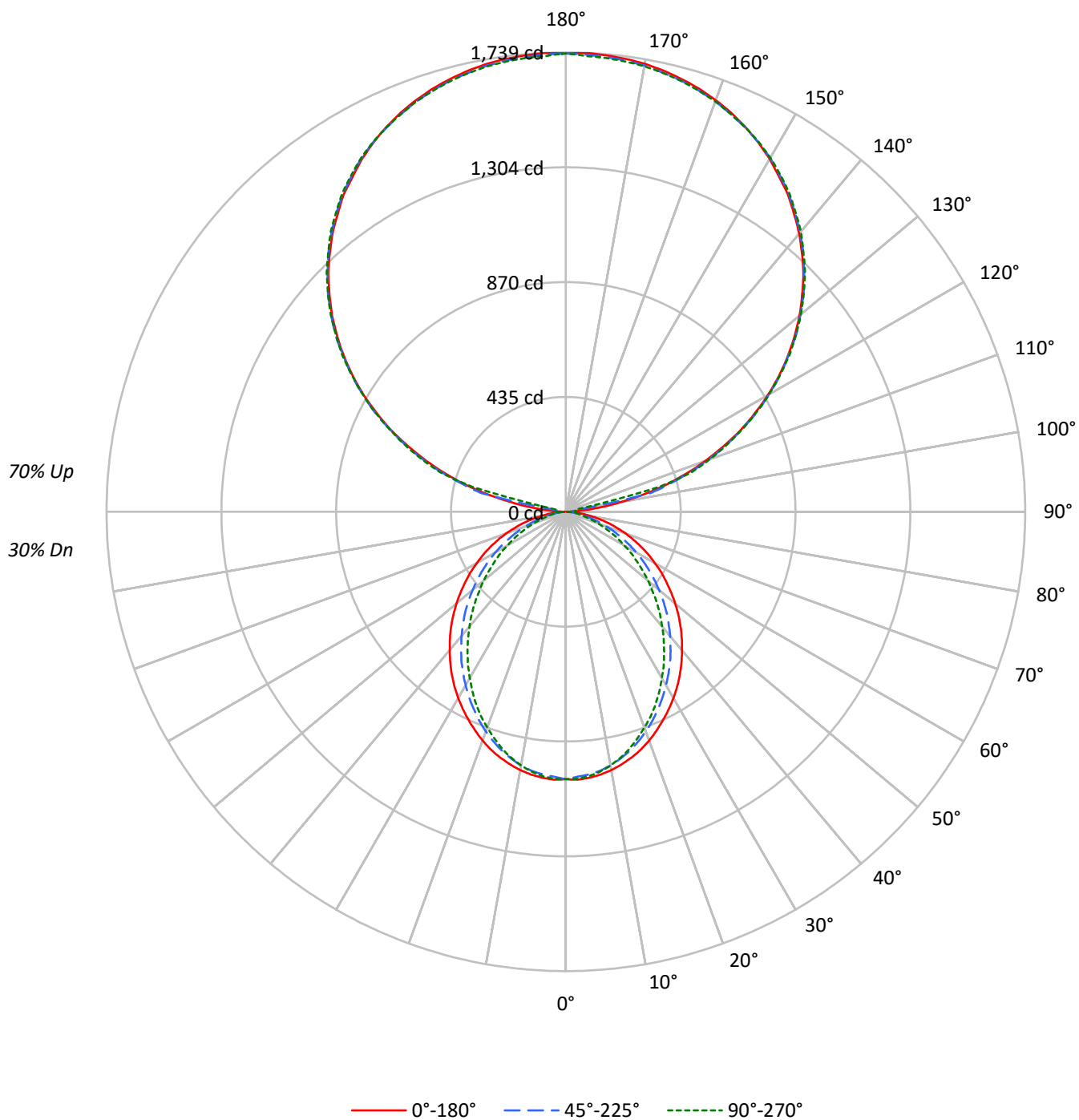
Lumens per Lamp: N/A
Luminaire Lumens: 7711.0 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	102	102	102	102	92	92	92	92	72	72	72	55	55	55	38	38	38
1	94	89	86	82	84	80	77	75	64	62	60	48	47	46	34	33	32
2	85	78	72	67	76	70	66	61	56	52	50	42	40	38	30	29	28
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24
4	71	61	53	48	64	55	49	44	44	39	36	34	30	28	24	22	20
5	65	54	46	41	58	49	42	37	39	34	31	30	27	24	22	20	18
6	60	49	41	35	54	44	37	32	35	30	27	27	24	21	20	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	23	19	17	16	14	13
9	48	36	29	24	43	33	26	22	27	22	19	21	17	15	15	13	11
10	45	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	1.2
10°-20°	265.4	3.4
20°-30°	383.2	5.0
30°-40°	434.3	5.6
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°	34.5	0.4
90°-100°	57.6	0.7
100°-110°	379.3	4.9
110°-120°	724.2	9.4
120°-130°	919.4	11.9
130°-140°	983.6	12.8
140°-150°	919.7	11.9
150°-160°	741.6	9.6
160°-170°	478.3	6.2
170°-180°	164.8	2.1
0°-30°	743.8	9.6
0°-40°	1178.0	15.3
0°-60°	1945.9	25.2
0°-90°	2342.6	30.4
90°-120°	1161.0	15.1
90°-150°	3983.6	51.7
90°-180°	5368.0	69.6
0°-180°	7711.0	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°	4	18	28	36	39	6
95°	71	27	28	36	38	88
105°	391	398	405	416	370	409
115°	729	733	732	734	734	718
125°	1025	1030	1028	1032	1033	915
135°	1272	1270	1276	1278	1281	980
145°	1466	1470	1470	1472	1474	916
155°	1608	1609	1605	1610	1606	741
165°	1696	1690	1690	1700	1688	479
175°	1735	1727	1728	1740	1724	165
180°	1735	1735	1735	1735	1735	

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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°	3.9	18.2	28.5	36.3	38.9
92.5°	19.5	16.9	27.2	35.0	35.0
95°	71.4	27.2	28.5	36.3	37.6
97.5°	136.2	164.8	28.5	35.0	36.3
100°	212.8	236.2	57.1	35.0	36.3
102.5°	298.5	314.0	329.6	37.6	37.6
105°	390.6	398.4	404.9	416.5	369.8
107.5°	474.9	478.8	487.9	494.4	499.6
110°	560.6	564.5	572.2	574.8	578.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	643.6	651.4	654.0	652.7	657.9
115°	729.3	733.2	731.9	734.4	734.4
117.5°	805.8	811.0	814.9	813.6	813.6
120°	883.7	888.9	887.6	890.2	887.6
122.5°	956.3	958.9	961.5	962.8	960.2
125°	1025.1	1030.3	1027.7	1031.6	1032.9
127.5°	1091.3	1092.6	1099.1	1097.8	1096.5
130°	1154.9	1156.2	1160.1	1161.4	1161.4
132.5°	1213.3	1215.9	1221.1	1222.4	1221.1
135°	1271.7	1270.4	1275.6	1278.1	1280.7
137.5°	1323.6	1323.6	1330.1	1332.6	1331.4
140°	1374.2	1376.8	1379.4	1383.3	1384.6
142.5°	1419.6	1424.8	1426.1	1428.7	1428.7
145°	1466.3	1470.2	1470.2	1471.5	1474.1
147.5°	1502.6	1510.4	1509.1	1510.4	1511.7
150°	1542.9	1548.1	1546.8	1546.8	1548.1
152.5°	1576.6	1580.5	1577.9	1580.5	1579.2
155°	1607.7	1609.0	1605.1	1610.3	1606.4
157.5°	1635.0	1635.0	1629.8	1636.3	1629.8
160°	1658.3	1654.5	1653.2	1660.9	1653.2
162.5°	1679.1	1673.9	1672.6	1680.4	1671.3
165°	1696.0	1689.5	1689.5	1699.9	1688.2
167.5°	1710.3	1703.8	1702.5	1714.1	1701.2
170°	1721.9	1714.1	1715.4	1725.8	1712.8
172.5°	1729.7	1721.9	1723.2	1733.6	1719.3
175°	1734.9	1727.1	1728.4	1740.1	1724.5
177.5°	1738.8	1729.7	1732.3	1742.7	1727.1
180°	1734.9	1734.9	1734.9	1734.9	1734.9

(END OF REPORT)