

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: P1032897

Luminaire Tested: S124RDIW-B1195D1050UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032897
REPORT IS A COMBINATION OF REPORTS P1000056 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B1195D1050UB2750-4F0-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

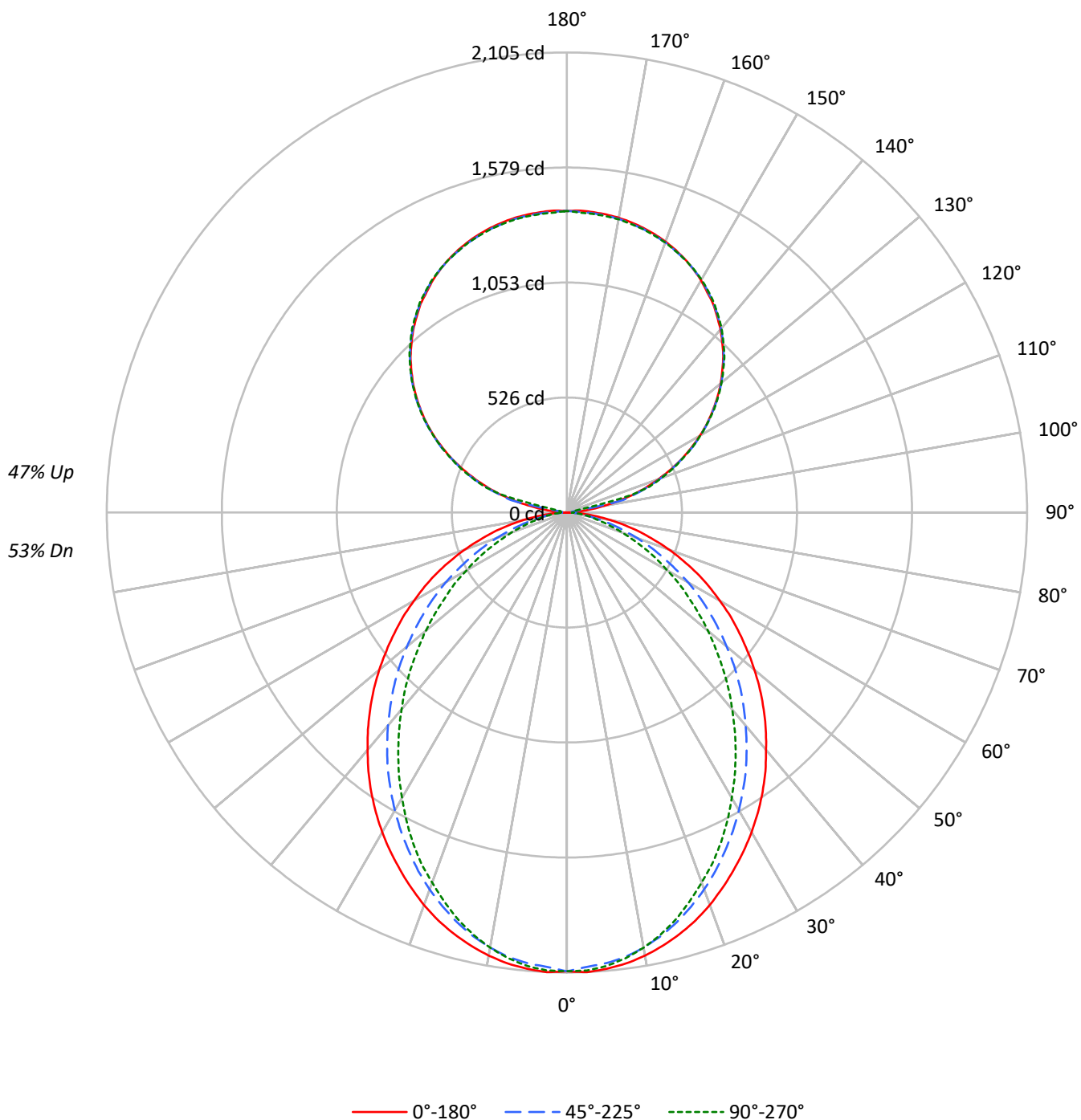
Lumens per Lamp: N/A
Luminaire Lumens: 9122.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
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
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85		72	72	72		59
1	99	95	91	87	91	88	85	82	75	73	71		63	62	60		53
2	90	83	77	72	83	77	72	67	66	62	59		56	53	51		47
3	82	73	66	60	76	68	62	57	59	54	50		50	46	43		42
4	76	65	57	51	70	60	54	48	52	47	43		45	40	37		37
5	69	58	50	44	64	54	47	42	47	41	37		40	36	32		34
6	64	52	44	38	59	49	42	36	42	37	32		36	32	29		31
7	59	47	39	34	55	44	37	32	38	33	29		33	29	25		28
8	55	43	35	30	51	40	33	28	35	30	26		30	26	23		26
9	51	39	32	27	48	37	30	25	32	27	23		28	24	20		24
10	48	36	29	24	45	34	27	23	30	24	21		26	22	19		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17116	17116	17116
5°	17118	16608	16610
10°	16973	16084	15893
15°	16740	15431	15046
20°	16434	14687	14082
25°	16052	13885	13139
30°	15679	13066	12082
35°	15268	12236	11047
40°	14780	11342	9985
45°	14321	10456	8933
50°	13800	9489	7864
55°	13237	8496	6762
60°	12612	7443	5673
65°	12008	6234	4624
70°	11150	4961	3534
75°	10052	3611	2471
80°	8394	2217	1777
85°	6316	1276	977

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14321 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	2.2
10°-20°	550.3	6.0
20°-30°	794.5	8.7
30°-40°	900.5	9.9
40°-50°	869.4	9.5
50°-60°	722.8	7.9
60°-70°	498.9	5.5
70°-80°	252.1	2.8
80°-90°	66.9	0.7
90°-100°	45.8	0.5
100°-110°	301.6	3.3
110°-120°	575.9	6.3
120°-130°	731.1	8.0
130°-140°	782.1	8.6
140°-150°	731.3	8.0
150°-160°	589.8	6.5
160°-170°	380.4	4.2
170°-180°	131.1	1.4
0°-30°	1542.2	16.9
0°-40°	2442.7	26.8
0°-60°	4035.0	44.2
0°-90°	4852.9	53.2
90°-120°	923.3	10.1
90°-150°	3167.9	34.7
90°-180°	4269.0	46.8
0°-180°	9122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2099	2099	2099	2099	2099	
5°	2096	2089	2070	2086	2083	199
15°	1996	1982	1942	1938	1927	563
25°	1805	1776	1710	1683	1667	832
35°	1561	1509	1429	1374	1345	975
45°	1273	1213	1117	1038	1009	982
55°	964	900	796	712	682	863
65°	656	587	484	415	395	648
75°	349	289	214	177	167	368
85°	87	55	50	47	47	95
90°	3	14	23	29	31	8
95°	57	22	23	29	30	70
105°	311	317	322	331	294	325
115°	580	583	582	584	584	571
125°	815	819	817	820	821	728
135°	1011	1010	1014	1016	1018	779
145°	1166	1169	1169	1170	1172	729
155°	1278	1280	1276	1281	1278	590
165°	1349	1344	1344	1352	1342	381
175°	1380	1374	1374	1384	1371	131
180°	1380	1380	1380	1380	1380	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2099.0	2099.0	2099.0	2099.0	2099.0
2.5°	2105.4	2099.0	2081.3	2099.0	2097.4
5°	2095.8	2089.4	2070.1	2086.2	2082.9
7.5°	2081.3	2074.9	2050.8	2062.1	2057.2
10°	2058.8	2050.8	2021.9	2028.3	2021.9
12.5°	2029.9	2020.3	1984.9	1988.1	1978.5
15°	1996.2	1981.7	1941.5	1938.3	1927.0
17.5°	1957.6	1936.7	1890.1	1882.0	1866.0
20°	1911.0	1890.1	1835.4	1822.6	1801.7
22.5°	1859.5	1835.4	1776.0	1755.1	1739.0
25°	1804.9	1776.0	1710.1	1682.7	1666.7
27.5°	1748.6	1713.3	1644.2	1612.0	1589.5
30°	1689.2	1649.0	1573.5	1533.3	1507.6
32.5°	1626.5	1579.9	1501.1	1452.9	1428.8
35°	1560.6	1509.2	1428.8	1374.2	1345.2
37.5°	1491.5	1438.5	1350.1	1290.6	1261.7
40°	1417.6	1364.5	1272.9	1205.4	1176.5
42.5°	1346.8	1290.6	1194.2	1125.0	1094.5
45°	1272.9	1213.4	1117.0	1038.3	1009.3
47.5°	1197.4	1136.3	1036.7	954.7	922.5
50°	1120.2	1057.5	954.7	874.3	843.8
52.5°	1041.5	980.4	874.3	792.4	760.2
55°	964.3	900.0	795.6	712.0	681.5
57.5°	888.8	821.3	718.4	633.2	610.7
60°	806.8	742.5	639.7	556.1	530.4
62.5°	732.9	665.4	559.3	483.8	464.5
65°	655.7	586.6	483.8	414.7	395.4
67.5°	575.4	509.5	413.1	352.0	329.5
70°	499.8	432.3	340.7	287.7	271.6
72.5°	419.5	360.0	274.8	231.4	217.0
75°	348.8	289.3	213.8	176.8	167.1
77.5°	274.8	223.4	159.1	133.4	130.2
80°	204.1	157.5	109.3	104.5	102.9
82.5°	143.0	101.3	78.8	75.5	73.9
85°	86.8	54.6	49.8	46.6	46.6
87.5°	37.0	24.1	22.5	20.9	22.5
90°	3.1	14.4	22.7	28.9	31.0
92.5°	15.5	13.4	21.7	27.9	27.9
95°	56.8	21.7	22.7	28.9	29.9
97.5°	108.4	131.1	22.7	27.9	28.9
100°	169.2	187.8	45.4	27.9	28.9
102.5°	237.3	249.7	262.1	29.9	29.9
105°	310.6	316.8	322.0	331.2	294.1
107.5°	377.7	380.8	388.0	393.2	397.3
110°	445.8	448.9	455.1	457.1	460.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	511.8	518.0	520.1	519.0	523.2
115°	579.9	583.0	582.0	584.1	584.1
117.5°	640.8	644.9	648.0	647.0	647.0
120°	702.7	706.9	705.8	707.9	705.8
122.5°	760.5	762.6	764.6	765.7	763.6
125°	815.2	819.3	817.3	820.4	821.4
127.5°	867.8	868.9	874.0	873.0	872.0
130°	918.4	919.4	922.5	923.6	923.6
132.5°	964.8	966.9	971.0	972.1	971.0
135°	1011.3	1010.2	1014.4	1016.4	1018.5
137.5°	1052.5	1052.5	1057.7	1059.8	1058.7
140°	1092.8	1094.9	1096.9	1100.0	1101.0
142.5°	1128.9	1133.0	1134.1	1136.1	1136.1
145°	1166.1	1169.1	1169.1	1170.2	1172.2
147.5°	1194.9	1201.1	1200.1	1201.1	1202.2
150°	1226.9	1231.1	1230.0	1230.0	1231.1
152.5°	1253.8	1256.9	1254.8	1256.9	1255.8
155°	1278.5	1279.6	1276.5	1280.6	1277.5
157.5°	1300.2	1300.2	1296.1	1301.2	1296.1
160°	1318.8	1315.7	1314.6	1320.8	1314.6
162.5°	1335.3	1331.2	1330.1	1336.3	1329.1
165°	1348.7	1343.5	1343.5	1351.8	1342.5
167.5°	1360.1	1354.9	1353.9	1363.1	1352.8
170°	1369.3	1363.1	1364.2	1372.4	1362.1
172.5°	1375.5	1369.3	1370.4	1378.6	1367.3
175°	1379.7	1373.5	1374.5	1383.8	1371.4
177.5°	1382.8	1375.5	1377.6	1385.9	1373.5
180°	1379.7	1379.7	1379.7	1379.7	1379.7

(END OF REPORT)