

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: P1029172

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029172
REPORT IS A COMBINATION OF REPORTS P985055 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D1240UB2750-4F0-XX-W2A-D_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

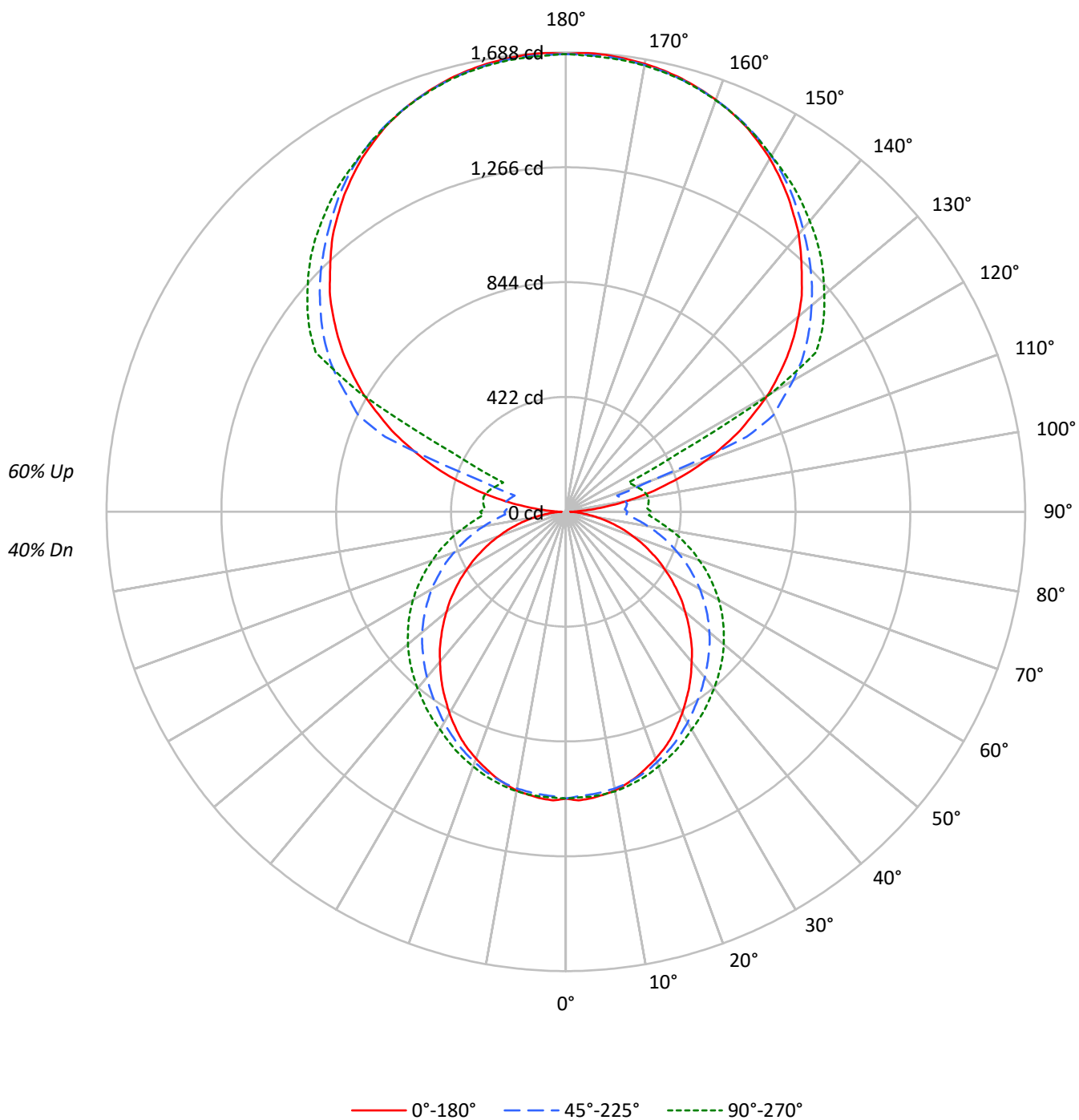
Lumens per Lamp: N/A
Luminaire Lumens: 8954.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 103.4
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	50	30	10
RCR																				
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47			40
1	94	90	85	81	86	81	78	74	66	64	61	52	51	49	40	38	37			31
2	85	77	71	65	77	71	65	60	57	53	50	45	42	40	34	32	30			25
3	78	68	60	54	70	62	55	50	50	45	41	40	36	33	30	27	25			21
4	71	60	51	45	64	54	47	42	44	39	35	35	31	28	26	24	21			17
5	65	53	45	38	58	48	41	35	39	34	30	31	27	24	24	21	18			15
6	60	47	39	33	54	43	36	31	35	30	26	28	24	21	21	18	16			13
7	55	42	34	29	50	39	32	27	32	26	22	25	21	18	19	16	14			11
8	51	38	31	25	46	35	28	23	29	24	20	23	19	16	18	15	13			10
9	47	35	27	22	43	32	25	21	27	21	18	21	17	14	16	13	11			9
10	44	32	25	20	40	29	23	18	24	19	16	20	16	13	15	12	10			8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16681	16681	16681
5°	16757	15969	15880
10°	16645	15416	15191
15°	16409	14845	14486
20°	16112	14243	13816
25°	15821	13668	13209
30°	15411	13083	12607
35°	14996	12520	12166
40°	14558	12033	11726
45°	14144	11591	11345
50°	13695	11183	10966
55°	13227	10751	10583
60°	12651	10300	10179
65°	12055	9782	9714
70°	11377	9225	9213
75°	10511	8668	8741
80°	9141	8090	8252
85°	7769	7544	7828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14144 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.1
10°-20°	286.5	3.2
20°-30°	434.1	4.8
30°-40°	528.7	5.9
40°-50°	568.8	6.4
50°-60°	552.4	6.2
60°-70°	482.4	5.4
70°-80°	371.3	4.1
80°-90°	251.6	2.8
90°-100°	227.0	2.5
100°-110°	332.0	3.7
110°-120°	631.0	7.0
120°-130°	955.4	10.7
130°-140°	985.2	11.0
140°-150°	900.9	10.1
150°-160°	721.7	8.1
160°-170°	465.0	5.2
170°-180°	160.1	1.8
0°-30°	820.6	9.2
0°-40°	1349.2	15.1
0°-60°	2470.4	27.6
0°-90°	3575.7	39.9
90°-120°	1190.0	13.3
90°-150°	4031.5	45.0
90°-180°	5378.0	60.1
0°-180°	8954.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1054	1054	1054	1054	1054	
5°	1057	1052	1043	1052	1051	100
15°	1008	1011	1011	1025	1023	284
25°	916	927	941	959	964	421
35°	790	816	845	878	889	494
45°	648	689	742	790	805	500
55°	496	551	631	686	706	444
65°	339	414	504	567	586	337
75°	188	273	371	437	457	199
85°	55	150	247	312	333	58
90°	16	118	226	293	314	15
95°	91	123	223	287	304	103
105°	378	458	206	272	294	404
115°	706	743	842	325	254	694
125°	992	1008	1080	1130	1147	886
135°	1226	1245	1271	1316	1325	947
145°	1420	1419	1440	1457	1459	889
155°	1564	1553	1567	1575	1565	721
165°	1648	1640	1644	1652	1644	465
175°	1685	1677	1679	1688	1676	160
180°	1682	1682	1682	1682	1682	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1053.8	1053.8	1053.8	1053.8	1053.8
2.5°	1061.5	1056.9	1046.2	1053.8	1050.8
5°	1056.9	1052.3	1043.1	1052.3	1050.8
7.5°	1049.2	1046.2	1038.5	1049.2	1047.7
10°	1040.1	1037.0	1032.4	1044.7	1043.1
12.5°	1024.8	1026.3	1023.3	1035.5	1034.0
15°	1008.0	1011.1	1011.1	1024.8	1023.3
17.5°	986.6	992.7	997.3	1011.1	1011.1
20°	965.2	972.9	979.0	995.8	995.8
22.5°	942.3	951.5	960.7	977.5	980.5
25°	916.4	927.1	940.8	959.1	963.7
27.5°	885.8	902.6	917.9	940.8	943.9
30°	855.3	875.1	895.0	919.4	924.0
32.5°	821.7	844.6	869.0	898.0	907.2
35°	789.6	815.6	844.6	878.2	888.9
37.5°	754.5	783.5	820.1	856.8	867.5
40°	719.3	752.9	794.2	833.9	847.6
42.5°	685.7	719.3	768.2	812.5	826.3
45°	647.6	688.8	742.3	789.6	804.9
47.5°	610.9	655.2	716.3	765.2	782.0
50°	572.7	620.1	688.8	740.7	757.5
52.5°	536.1	586.5	659.8	713.2	731.6
55°	496.4	551.3	630.8	685.7	705.6
57.5°	458.2	519.3	598.7	658.3	678.1
60°	416.9	482.6	569.7	627.7	649.1
62.5°	380.3	449.0	536.1	598.7	618.5
65°	339.1	413.9	504.0	566.6	586.5
67.5°	302.4	380.3	471.9	534.5	555.9
70°	262.7	342.1	436.8	502.5	520.8
72.5°	226.0	308.5	404.7	468.9	491.8
75°	187.9	273.4	371.1	436.8	456.7
77.5°	151.2	239.8	339.1	404.7	426.1
80°	114.5	207.7	307.0	371.1	392.5
82.5°	84.0	175.6	276.4	340.6	360.4
85°	55.0	149.7	247.4	311.6	332.9
87.5°	33.6	125.2	223.0	285.6	305.5
90°	16.5	118.5	225.9	293.1	313.9
92.5°	44.1	120.3	217.1	279.0	298.6
95°	91.3	122.9	223.1	287.2	304.3
97.5°	153.1	119.0	227.0	287.2	306.7
100°	226.1	115.9	222.1	288.3	307.5
102.5°	304.9	352.9	213.8	282.2	302.6
105°	377.5	458.3	205.5	272.4	294.1
107.5°	463.9	531.0	197.4	262.6	284.3
110°	545.2	601.3	324.4	251.7	273.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	623.0	669.3	719.0	243.4	263.8
115°	705.8	743.3	842.4	324.9	254.1
117.5°	776.1	812.6	897.4	769.3	465.7
120°	856.4	880.7	963.7	1021.0	873.6
122.5°	924.5	945.5	1026.3	1074.9	1089.8
125°	992.4	1008.2	1080.1	1129.9	1147.3
127.5°	1055.7	1071.1	1130.6	1180.9	1195.9
130°	1115.3	1133.2	1178.6	1228.7	1239.7
132.5°	1176.1	1190.3	1226.6	1272.8	1283.8
135°	1225.6	1245.1	1271.4	1315.6	1325.4
137.5°	1279.2	1293.8	1313.6	1354.8	1361.9
140°	1331.5	1339.7	1356.2	1391.6	1394.7
142.5°	1375.3	1382.3	1398.1	1426.2	1427.8
145°	1420.0	1418.8	1439.5	1457.2	1458.7
147.5°	1460.2	1456.5	1477.2	1484.8	1484.6
150°	1499.1	1490.6	1510.1	1517.4	1511.3
152.5°	1532.0	1522.3	1540.5	1547.8	1539.3
155°	1563.6	1552.7	1567.3	1574.6	1564.8
157.5°	1589.2	1579.4	1590.4	1598.9	1589.2
160°	1611.1	1603.8	1611.1	1618.4	1609.9
162.5°	1630.6	1623.3	1629.3	1637.9	1626.9
165°	1647.6	1640.3	1643.9	1652.5	1643.9
167.5°	1661.0	1653.7	1657.3	1665.8	1654.9
170°	1671.9	1664.6	1667.1	1675.6	1664.6
172.5°	1679.2	1671.9	1674.4	1682.9	1671.9
175°	1685.3	1676.8	1679.2	1687.7	1675.6
177.5°	1687.7	1679.2	1680.4	1689.0	1678.0
180°	1681.7	1681.7	1681.7	1681.7	1681.7

(END OF REPORT)