

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: P1029205

Luminaire Tested: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029205
REPORT IS A COMBINATION OF REPORTS P985148 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D1440UB2750-4F0-XX-W2A-F1_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

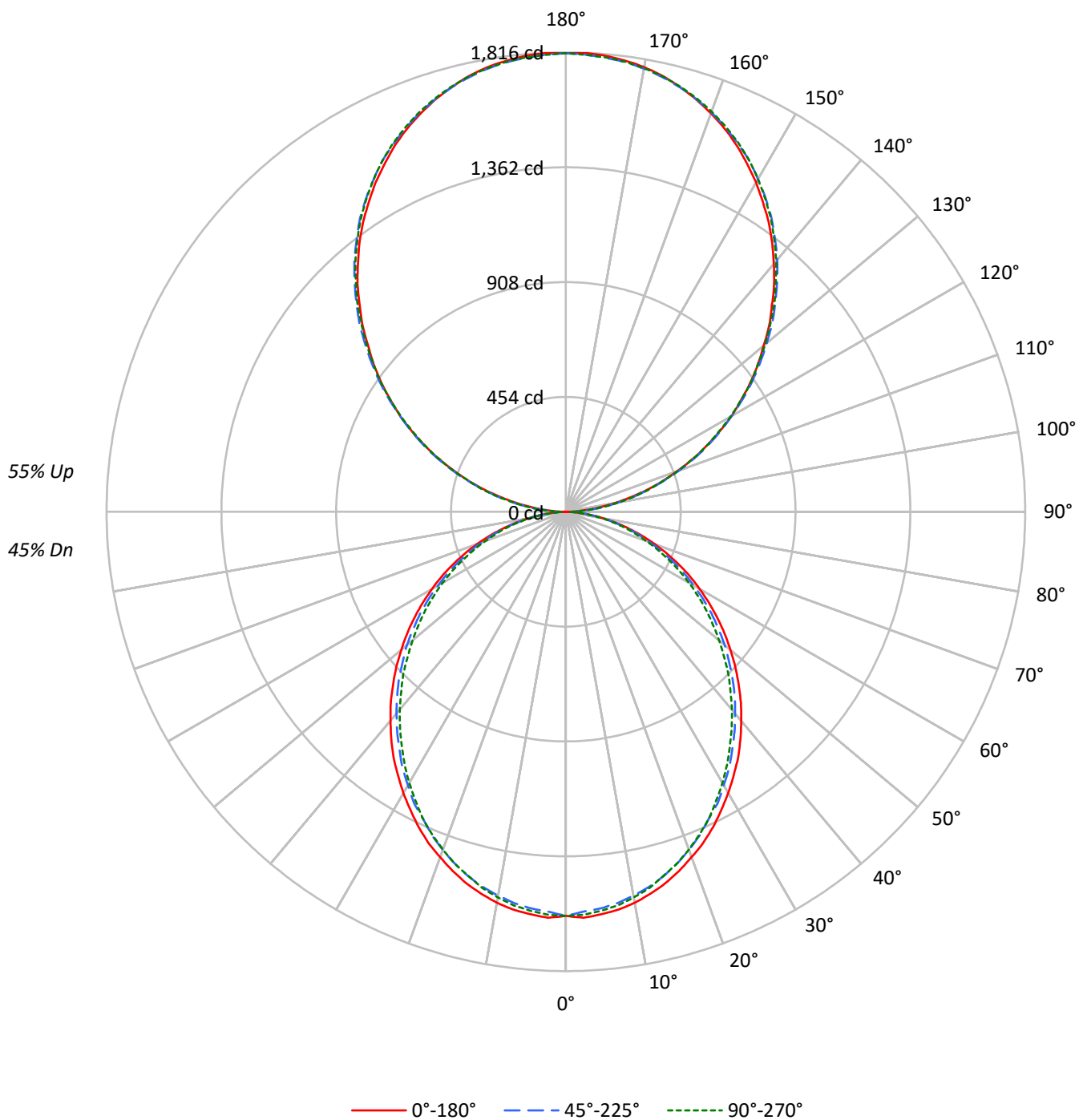
Lumens per Lamp: N/A
Luminaire Lumens: 9137.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 113.5
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	106	106	106	106	97	97	97	97	80	80	80		65	65	65		51
1	97	92	88	85	88	85	81	78	70	68	66		57	56	54		45
2	88	81	74	69	80	74	69	64	62	58	55		50	48	45		40
3	80	71	64	58	73	65	59	54	54	50	46		44	41	38		35
4	73	63	55	49	67	58	51	46	48	43	39		40	36	33		31
5	67	56	48	42	61	51	44	39	43	38	34		36	32	28		28
6	62	50	42	36	57	46	39	34	39	33	29		32	28	25		26
7	57	45	37	32	52	42	35	30	35	30	26		29	25	22		23
8	53	41	33	28	49	38	31	26	32	27	23		27	23	20		22
9	49	37	30	25	45	35	28	23	29	24	20		25	20	18		20
10	46	34	27	22	42	32	25	21	27	22	18		23	19	16		18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25286	25286	25286
5°	25327	24101	23931
10°	25120	23004	22546
15°	24753	21896	21092
20°	24255	20693	19713
25°	23759	19436	18336
30°	23137	18254	16892
35°	22549	17008	15473
40°	21822	15778	14131
45°	21100	14558	12816
50°	20312	13317	11451
55°	19481	11990	10160
60°	18550	10553	8816
65°	17526	9093	7403
70°	16232	7493	5978
75°	14433	5777	4615
80°	12263	3926	2971
85°	8899	1826	1265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	1.6
10°-20°	423.0	4.6
20°-30°	621.6	6.8
30°-40°	722.0	7.9
40°-50°	721.1	7.9
50°-60°	628.8	6.9
60°-70°	464.8	5.1
70°-80°	263.0	2.9
80°-90°	74.6	0.8
90°-100°	112.1	1.2
100°-110°	356.5	3.9
110°-120°	610.0	6.7
120°-130°	802.2	8.8
130°-140°	900.4	9.9
140°-150°	883.0	9.7
150°-160°	740.7	8.1
160°-170°	491.2	5.4
170°-180°	171.7	1.9
0°-30°	1195.0	13.1
0°-40°	1917.0	21.0
0°-60°	3266.8	35.8
0°-90°	4069.2	44.5
90°-120°	1078.6	11.8
90°-150°	3664.2	40.1
90°-180°	5068.0	55.5
0°-180°	9137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1597	1591	1574	1587	1584	152
15°	1521	1511	1491	1498	1490	428
25°	1376	1364	1338	1341	1338	633
35°	1187	1172	1147	1138	1130	741
45°	966	955	932	915	909	746
55°	731	722	704	685	677	654
65°	493	484	468	455	447	487
75°	258	255	247	238	241	275
85°	63	61	60	55	54	70
90°	2	20	54	50	52	9
95°	80	95	98	98	95	89
105°	329	334	336	340	340	347
115°	612	621	618	616	612	605
125°	890	904	899	895	893	796
135°	1152	1169	1172	1170	1166	890
145°	1398	1409	1418	1420	1413	874
155°	1598	1603	1608	1615	1611	736
165°	1739	1738	1738	1748	1741	491
175°	1810	1805	1802	1813	1804	172
180°	1813	1813	1813	1813	1813	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.4	1597.4	1597.4	1597.4	1597.4
2.5°	1606.6	1598.9	1582.0	1597.4	1594.3
5°	1597.4	1591.2	1574.3	1586.6	1583.6
7.5°	1586.6	1577.4	1560.5	1572.8	1569.7
10°	1569.7	1559.0	1540.6	1552.8	1548.2
12.5°	1546.7	1537.5	1519.1	1526.7	1523.7
15°	1520.6	1511.4	1491.4	1497.5	1489.9
17.5°	1488.3	1479.1	1459.1	1466.8	1459.1
20°	1453.0	1443.8	1422.3	1426.9	1420.8
22.5°	1417.7	1403.9	1383.9	1383.9	1380.8
25°	1376.2	1363.9	1337.8	1340.9	1337.8
27.5°	1330.1	1319.4	1299.4	1294.8	1287.1
30°	1284.1	1271.8	1248.7	1244.1	1238.0
32.5°	1234.9	1225.7	1201.1	1191.9	1185.8
35°	1187.3	1171.9	1147.4	1138.1	1130.5
37.5°	1133.5	1119.7	1095.1	1084.4	1076.7
40°	1078.2	1065.9	1041.4	1027.5	1021.4
42.5°	1024.5	1012.2	987.6	972.3	963.0
45°	966.1	955.4	932.3	915.4	909.3
47.5°	909.3	898.5	874.0	857.1	847.8
50°	849.4	841.7	820.2	798.7	791.0
52.5°	791.0	780.3	760.3	743.4	732.6
55°	731.1	721.9	703.5	685.0	677.4
57.5°	671.2	663.5	643.6	625.1	619.0
60°	611.3	605.2	583.7	566.8	562.2
62.5°	552.9	542.2	526.8	511.5	505.3
65°	493.0	483.8	468.5	454.6	447.0
67.5°	431.6	423.9	410.1	399.3	393.2
70°	374.8	368.6	354.8	344.1	337.9
72.5°	316.4	310.3	302.6	291.8	287.2
75°	258.0	255.0	247.3	238.1	241.1
77.5°	205.8	199.7	196.6	192.0	187.4
80°	153.6	152.1	149.0	144.4	141.3
82.5°	104.4	104.4	102.9	96.8	96.8
85°	63.0	61.4	59.9	55.3	53.8
87.5°	27.6	24.6	21.5	16.9	15.4
90°	1.5	19.9	53.5	50.5	52.0
92.5°	33.7	45.9	47.4	48.9	48.9
95°	79.5	94.8	97.9	97.9	94.8
97.5°	133.1	146.8	153.0	153.0	153.0
100°	194.3	206.5	211.1	211.1	209.6
102.5°	258.5	267.7	273.8	275.3	273.8
105°	328.9	333.5	336.5	339.6	339.6
107.5°	399.2	405.4	405.4	406.9	399.2
110°	466.5	475.7	475.7	475.7	471.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	540.0	549.2	547.6	543.0	540.0
115°	611.9	621.0	618.0	616.5	611.9
117.5°	683.8	696.0	688.4	683.8	679.2
120°	755.7	767.9	755.7	755.7	751.1
122.5°	821.4	836.7	829.1	824.5	821.4
125°	890.3	904.0	899.4	894.9	893.3
127.5°	957.6	974.4	968.3	962.2	957.6
130°	1020.3	1040.2	1037.1	1034.1	1027.9
132.5°	1090.7	1105.9	1107.5	1099.8	1095.2
135°	1151.8	1168.7	1171.7	1170.2	1165.6
137.5°	1219.1	1232.9	1236.0	1234.4	1228.3
140°	1278.8	1292.6	1300.2	1300.2	1294.1
142.5°	1340.0	1353.8	1358.3	1359.9	1353.8
145°	1398.1	1408.8	1418.0	1419.5	1413.4
147.5°	1450.1	1463.9	1470.0	1473.1	1467.0
150°	1503.7	1512.8	1519.0	1523.5	1519.0
152.5°	1551.1	1560.3	1567.9	1574.0	1567.9
155°	1598.5	1603.1	1607.7	1615.3	1610.7
157.5°	1639.8	1642.9	1645.9	1656.6	1649.0
160°	1676.5	1679.6	1681.1	1690.3	1684.2
162.5°	1710.2	1710.2	1711.7	1722.4	1714.8
165°	1739.2	1737.7	1737.7	1748.4	1740.8
167.5°	1765.2	1760.6	1760.6	1771.4	1763.7
170°	1785.1	1780.5	1779.0	1789.7	1780.5
172.5°	1798.9	1794.3	1792.8	1803.5	1794.3
175°	1809.6	1805.0	1801.9	1812.7	1803.5
177.5°	1815.7	1811.1	1808.1	1817.2	1808.1
180°	1812.7	1812.7	1812.7	1812.7	1812.7

(END OF REPORT)