

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: P1029176

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-F1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029176
REPORT IS A COMBINATION OF REPORTS P985059 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-F1_3500K
Description: Define 2 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

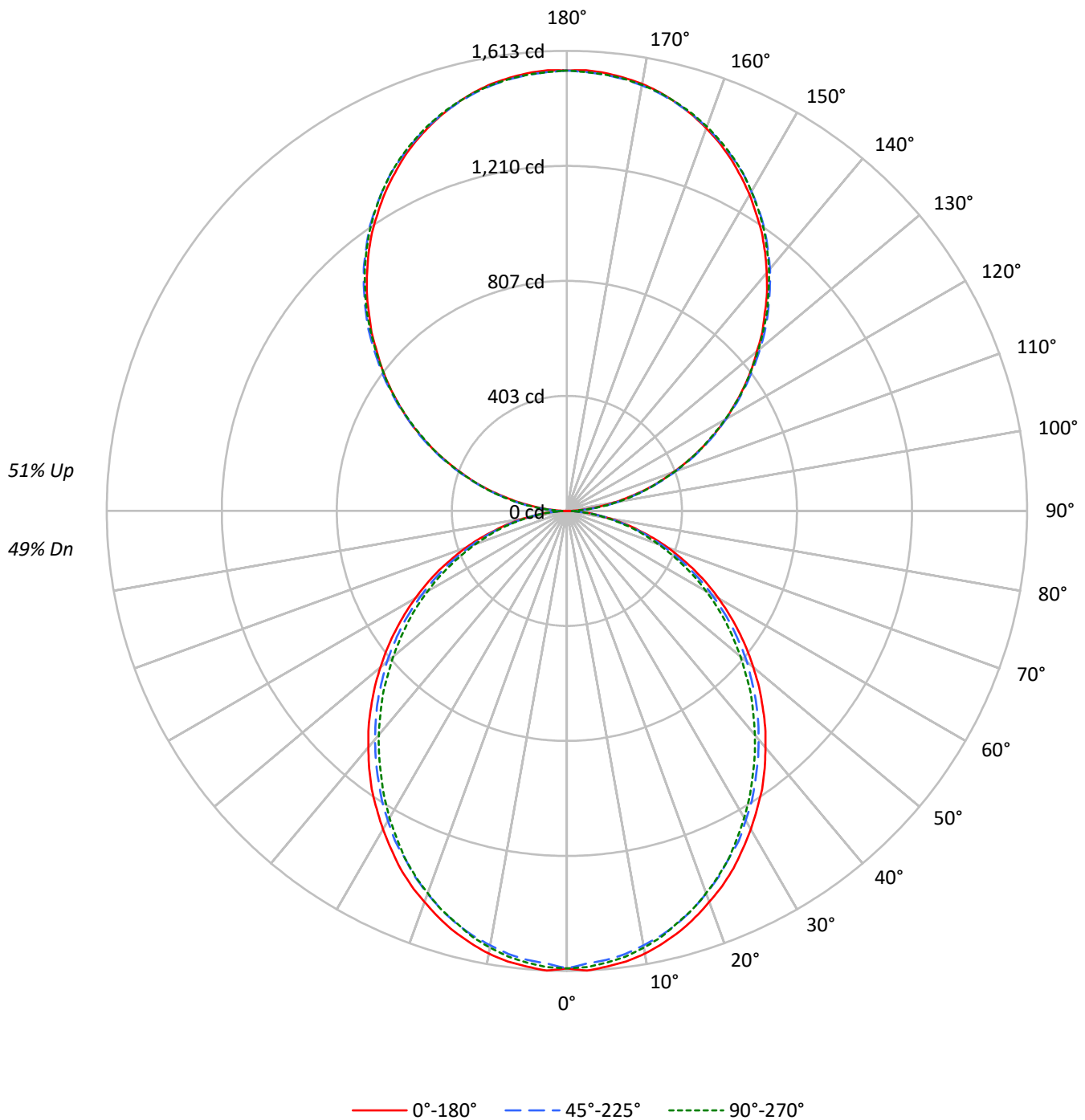
Lumens per Lamp: N/A
Luminaire Lumens: 8402.0 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55			49
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46			41
2	89	81	75	70	81	75	70	65	63	60	56	53	50	47	43	41	39			34
3	81	72	64	58	74	66	60	55	56	51	47	47	43	40	38	35	33			29
4	74	63	55	49	68	59	52	46	50	44	40	41	38	34	34	31	29			25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25			22
6	63	51	42	37	57	47	40	34	40	34	30	34	29	26	28	24	22			19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	25	22	20			17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18			15
9	50	38	30	25	46	35	29	24	30	25	21	26	22	18	21	18	16			14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14			12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25392	25392	25392
5°	25433	24202	24031
10°	25225	23099	22641
15°	24856	21987	21179
20°	24357	20779	19795
25°	23859	19517	18413
30°	23232	18330	16963
35°	22644	17079	15537
40°	21913	15843	14190
45°	21189	14619	12870
50°	20396	13372	11499
55°	19564	12039	10202
60°	18629	10597	8852
65°	17601	9129	7433
70°	16296	7525	6002
75°	14494	5800	4636
80°	12311	3942	2983
85°	8927	1836	1270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	1.8
10°-20°	424.8	5.1
20°-30°	624.2	7.4
30°-40°	725.0	8.6
40°-50°	724.1	8.6
50°-60°	631.4	7.5
60°-70°	466.7	5.6
70°-80°	264.1	3.1
80°-90°	74.1	0.9
90°-100°	95.5	1.1
100°-110°	303.6	3.6
110°-120°	519.5	6.2
120°-130°	683.3	8.1
130°-140°	767.0	9.1
140°-150°	752.1	9.0
150°-160°	630.9	7.5
160°-170°	418.4	5.0
170°-180°	146.2	1.7
0°-30°	1200.0	14.3
0°-40°	1925.0	22.9
0°-60°	3280.5	39.0
0°-90°	4085.4	48.6
90°-120°	918.7	10.9
90°-150°	3121.0	37.1
90°-180°	4317.0	51.4
0°-180°	8402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1598	1581	1593	1590	152
15°	1527	1518	1498	1504	1496	430
25°	1382	1370	1343	1346	1343	636
35°	1192	1177	1152	1143	1135	745
45°	970	959	936	919	913	749
55°	734	725	706	688	680	656
65°	495	486	470	456	449	490
75°	259	256	248	239	242	277
85°	63	62	60	56	54	70
90°	1	17	46	43	44	8
95°	68	81	83	83	81	76
105°	280	284	287	289	289	296
115°	521	529	526	525	521	516
125°	758	770	766	762	761	678
135°	981	995	998	997	993	758
145°	1191	1200	1208	1209	1204	744
155°	1362	1366	1369	1376	1372	627
165°	1481	1480	1480	1489	1483	418
175°	1541	1537	1535	1544	1536	146
180°	1544	1544	1544	1544	1544	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1613.3	1605.6	1588.6	1604.1	1601.0
5°	1604.1	1597.9	1580.9	1593.3	1590.2
7.5°	1593.3	1584.0	1567.0	1579.4	1576.3
10°	1576.3	1565.5	1547.0	1559.3	1554.7
12.5°	1553.2	1543.9	1525.4	1533.1	1530.0
15°	1526.9	1517.7	1497.6	1503.8	1496.1
17.5°	1494.6	1485.3	1465.3	1473.0	1465.3
20°	1459.1	1449.8	1428.2	1432.9	1426.7
22.5°	1423.6	1409.7	1389.7	1389.7	1386.6
25°	1382.0	1369.6	1343.4	1346.5	1343.4
27.5°	1335.7	1324.9	1304.8	1300.2	1292.5
30°	1289.4	1277.1	1253.9	1249.3	1243.2
32.5°	1240.1	1230.8	1206.1	1196.9	1190.7
35°	1192.3	1176.8	1152.2	1142.9	1135.2
37.5°	1138.3	1124.4	1099.7	1088.9	1081.2
40°	1082.7	1070.4	1045.7	1031.8	1025.7
42.5°	1028.8	1016.4	991.7	976.3	967.1
45°	970.2	959.4	936.2	919.3	913.1
47.5°	913.1	902.3	877.6	860.6	851.4
50°	852.9	845.2	823.6	802.0	794.3
52.5°	794.3	783.5	763.5	746.5	735.7
55°	734.2	724.9	706.4	687.9	680.2
57.5°	674.0	666.3	646.3	627.7	621.6
60°	613.9	607.7	586.1	569.1	564.5
62.5°	555.3	544.5	529.0	513.6	507.4
65°	495.1	485.8	470.4	456.5	448.8
67.5°	433.4	425.7	411.8	401.0	394.8
70°	376.3	370.2	356.3	345.5	339.3
72.5°	317.7	311.6	303.8	293.1	288.4
75°	259.1	256.0	248.3	239.1	242.2
77.5°	206.7	200.5	197.4	192.8	188.2
80°	154.2	152.7	149.6	145.0	141.9
82.5°	104.9	104.9	103.3	97.2	97.2
85°	63.2	61.7	60.2	55.5	54.0
87.5°	27.8	24.7	21.6	17.0	15.4
90°	1.3	16.9	45.6	43.0	44.3
92.5°	28.7	39.1	40.4	41.7	41.7
95°	67.8	80.8	83.4	83.4	80.8
97.5°	113.4	125.1	130.3	130.3	130.3
100°	165.5	175.9	179.8	179.8	178.5
102.5°	220.2	228.0	233.2	234.5	233.2
105°	280.1	284.0	286.6	289.2	289.2
107.5°	340.1	345.3	345.3	346.6	340.1
110°	397.4	405.2	405.2	405.2	401.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	459.9	467.7	466.4	462.5	459.9
115°	521.2	529.0	526.4	525.1	521.2
117.5°	582.4	592.8	586.3	582.4	578.5
120°	643.6	654.1	643.6	643.6	639.7
122.5°	699.7	712.7	706.2	702.3	699.7
125°	758.3	770.0	766.1	762.2	760.9
127.5°	815.6	830.0	824.7	819.5	815.6
130°	869.0	886.0	883.4	880.8	875.6
132.5°	929.0	942.0	943.3	936.8	932.9
135°	981.1	995.4	998.0	996.7	992.8
137.5°	1038.4	1050.2	1052.8	1051.5	1046.2
140°	1089.2	1101.0	1107.5	1107.5	1102.3
142.5°	1141.4	1153.1	1157.0	1158.3	1153.1
145°	1190.9	1200.0	1207.8	1209.1	1203.9
147.5°	1235.2	1246.9	1252.1	1254.7	1249.5
150°	1280.8	1288.6	1293.8	1297.7	1293.8
152.5°	1321.2	1329.0	1335.5	1340.7	1335.5
155°	1361.5	1365.5	1369.4	1375.9	1372.0
157.5°	1396.7	1399.3	1401.9	1411.1	1404.5
160°	1428.0	1430.6	1431.9	1439.7	1434.5
162.5°	1456.7	1456.7	1458.0	1467.1	1460.6
165°	1481.4	1480.1	1480.1	1489.2	1482.7
167.5°	1503.6	1499.7	1499.7	1508.8	1502.3
170°	1520.5	1516.6	1515.3	1524.4	1516.6
172.5°	1532.2	1528.3	1527.0	1536.1	1528.3
175°	1541.3	1537.4	1534.8	1544.0	1536.1
177.5°	1546.6	1542.7	1540.0	1547.9	1540.0
180°	1544.0	1544.0	1544.0	1544.0	1544.0

(END OF REPORT)