

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: P1029169

Luminaire Tested: S122DIW-B1005D1240UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029169
REPORT IS A COMBINATION OF REPORTS P985052 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_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

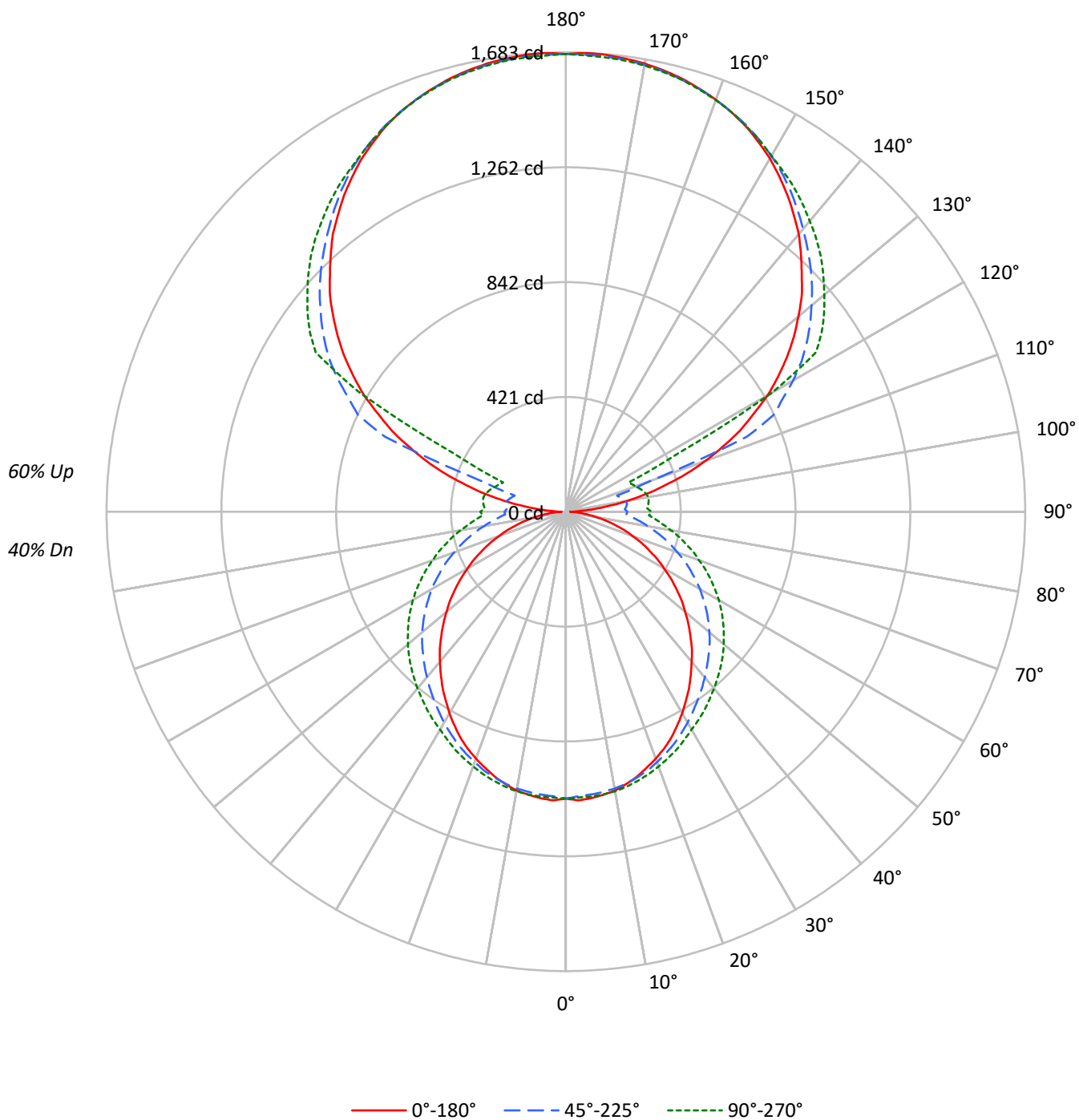
Lumens per Lamp: N/A
Luminaire Lumens: 8928.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	16632	16632	16632
5°	16706	15921	15831
10°	16595	15371	15146
15°	16360	14799	14442
20°	16066	14201	13775
25°	15773	13627	13169
30°	15364	13044	12569
35°	14950	12483	12129
40°	14515	11997	11692
45°	14100	11555	11311
50°	13655	11149	10935
55°	13187	10718	10551
60°	12614	10269	10149
65°	12016	9752	9684
70°	11342	9198	9185
75°	10478	8643	8715
80°	9117	8066	8226
85°	7741	7522	7807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.1
10°-20°	285.7	3.2
20°-30°	432.8	4.8
30°-40°	527.1	5.9
40°-50°	567.1	6.4
50°-60°	550.7	6.2
60°-70°	481.0	5.4
70°-80°	370.2	4.1
80°-90°	250.9	2.8
90°-100°	226.4	2.5
100°-110°	331.0	3.7
110°-120°	629.2	7.0
120°-130°	952.7	10.7
130°-140°	982.4	11.0
140°-150°	898.4	10.1
150°-160°	719.6	8.1
160°-170°	463.7	5.2
170°-180°	159.6	1.8
0°-30°	818.1	9.2
0°-40°	1345.2	15.1
0°-60°	2463.0	27.6
0°-90°	3565.0	39.9
90°-120°	1186.6	13.3
90°-150°	4020.0	45.0
90°-180°	5363.0	60.1
0°-180°	8928.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1054	1049	1040	1049	1048	100
15°	1005	1008	1008	1022	1020	283
25°	914	924	938	956	961	420
35°	787	813	842	876	886	492
45°	646	687	740	787	802	498
55°	495	550	629	684	704	443
65°	338	413	502	565	585	336
75°	187	273	370	436	455	198
85°	55	149	247	311	332	58
90°	16	118	225	292	313	15
95°	91	122	222	286	303	103
105°	376	457	205	272	293	403
115°	704	741	840	324	253	692
125°	990	1005	1077	1127	1144	883
135°	1222	1242	1268	1312	1322	945
145°	1416	1415	1435	1453	1455	886
155°	1559	1548	1563	1570	1560	718
165°	1643	1636	1639	1648	1639	464
175°	1680	1672	1674	1683	1671	160
180°	1677	1677	1677	1677	1677	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1058.3	1053.7	1043.1	1050.7	1047.6
5°	1053.7	1049.2	1040.0	1049.2	1047.6
7.5°	1046.1	1043.1	1035.4	1046.1	1044.6
10°	1037.0	1033.9	1029.4	1041.5	1040.0
12.5°	1021.7	1023.3	1020.2	1032.4	1030.9
15°	1005.0	1008.0	1008.0	1021.7	1020.2
17.5°	983.7	989.8	994.3	1008.0	1008.0
20°	962.4	970.0	976.1	992.8	992.8
22.5°	939.5	948.7	957.8	974.5	977.6
25°	913.6	924.3	938.0	956.3	960.8
27.5°	883.2	899.9	915.2	938.0	941.0
30°	852.7	872.5	892.3	916.7	921.2
32.5°	819.2	842.1	866.4	895.4	904.5
35°	787.2	813.1	842.1	875.6	886.2
37.5°	752.2	781.2	817.7	854.2	864.9
40°	717.2	750.7	791.8	831.4	845.1
42.5°	683.7	717.2	765.9	810.1	823.8
45°	645.6	686.7	740.0	787.2	802.5
47.5°	609.1	653.2	714.2	762.9	779.6
50°	571.0	618.2	686.7	738.5	755.3
52.5°	534.5	584.7	657.8	711.1	729.4
55°	494.9	549.7	628.9	683.7	703.5
57.5°	456.8	517.7	596.9	656.3	676.1
60°	415.7	481.2	568.0	625.8	647.2
62.5°	379.2	447.7	534.5	596.9	616.7
65°	338.0	412.7	502.5	564.9	584.7
67.5°	301.5	379.2	470.5	533.0	554.3
70°	261.9	341.1	435.5	501.0	519.2
72.5°	225.4	307.6	403.5	467.5	490.3
75°	187.3	272.6	370.0	435.5	455.3
77.5°	150.7	239.1	338.0	403.5	424.8
80°	114.2	207.1	306.1	370.0	391.3
82.5°	83.7	175.1	275.6	339.6	359.4
85°	54.8	149.2	246.7	310.6	332.0
87.5°	33.5	124.9	222.3	284.7	304.5
90°	16.4	118.1	225.3	292.2	313.0
92.5°	44.0	119.9	216.4	278.2	297.8
95°	91.1	122.5	222.4	286.4	303.4
97.5°	152.7	118.6	226.4	286.3	305.8
100°	225.5	115.5	221.5	287.5	306.7
102.5°	304.0	351.8	213.2	281.3	301.8
105°	376.5	457.1	205.0	271.6	293.2
107.5°	462.6	529.6	196.7	261.9	283.4
110°	543.6	599.5	323.5	250.9	272.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	621.3	667.5	716.9	242.6	263.1
115°	703.8	741.1	840.1	323.9	253.3
117.5°	773.9	810.2	894.9	767.1	464.4
120°	854.0	878.3	961.0	1018.2	871.2
122.5°	921.9	942.8	1023.4	1071.8	1086.7
125°	989.5	1005.3	1077.1	1126.7	1144.0
127.5°	1052.6	1068.1	1127.4	1177.6	1192.5
130°	1112.0	1129.9	1175.3	1225.1	1236.1
132.5°	1172.7	1187.0	1223.2	1269.1	1280.1
135°	1222.2	1241.6	1267.7	1311.8	1321.6
137.5°	1275.5	1290.1	1309.8	1351.0	1357.9
140°	1327.7	1335.9	1352.3	1387.6	1390.6
142.5°	1371.4	1378.4	1394.2	1422.2	1423.7
145°	1416.0	1414.8	1435.4	1453.0	1454.6
147.5°	1456.1	1452.4	1473.0	1480.6	1480.4
150°	1494.9	1486.4	1505.8	1513.1	1507.0
152.5°	1527.6	1517.9	1536.1	1543.4	1534.9
155°	1559.2	1548.3	1562.8	1570.1	1560.4
157.5°	1584.7	1575.0	1585.9	1594.4	1584.7
160°	1606.5	1599.2	1606.5	1613.8	1605.3
162.5°	1625.9	1618.6	1624.7	1633.2	1622.3
165°	1642.9	1635.6	1639.3	1647.8	1639.3
167.5°	1656.3	1649.0	1652.6	1661.1	1650.2
170°	1667.2	1659.9	1662.3	1670.8	1659.9
172.5°	1674.5	1667.2	1669.6	1678.1	1667.2
175°	1680.5	1672.0	1674.5	1683.0	1670.8
177.5°	1683.0	1674.5	1675.7	1684.2	1673.2
180°	1676.9	1676.9	1676.9	1676.9	1676.9

(END OF REPORT)