

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: P1029283

Luminaire Tested: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029283
REPORT IS A COMBINATION OF REPORTS P985402 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_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

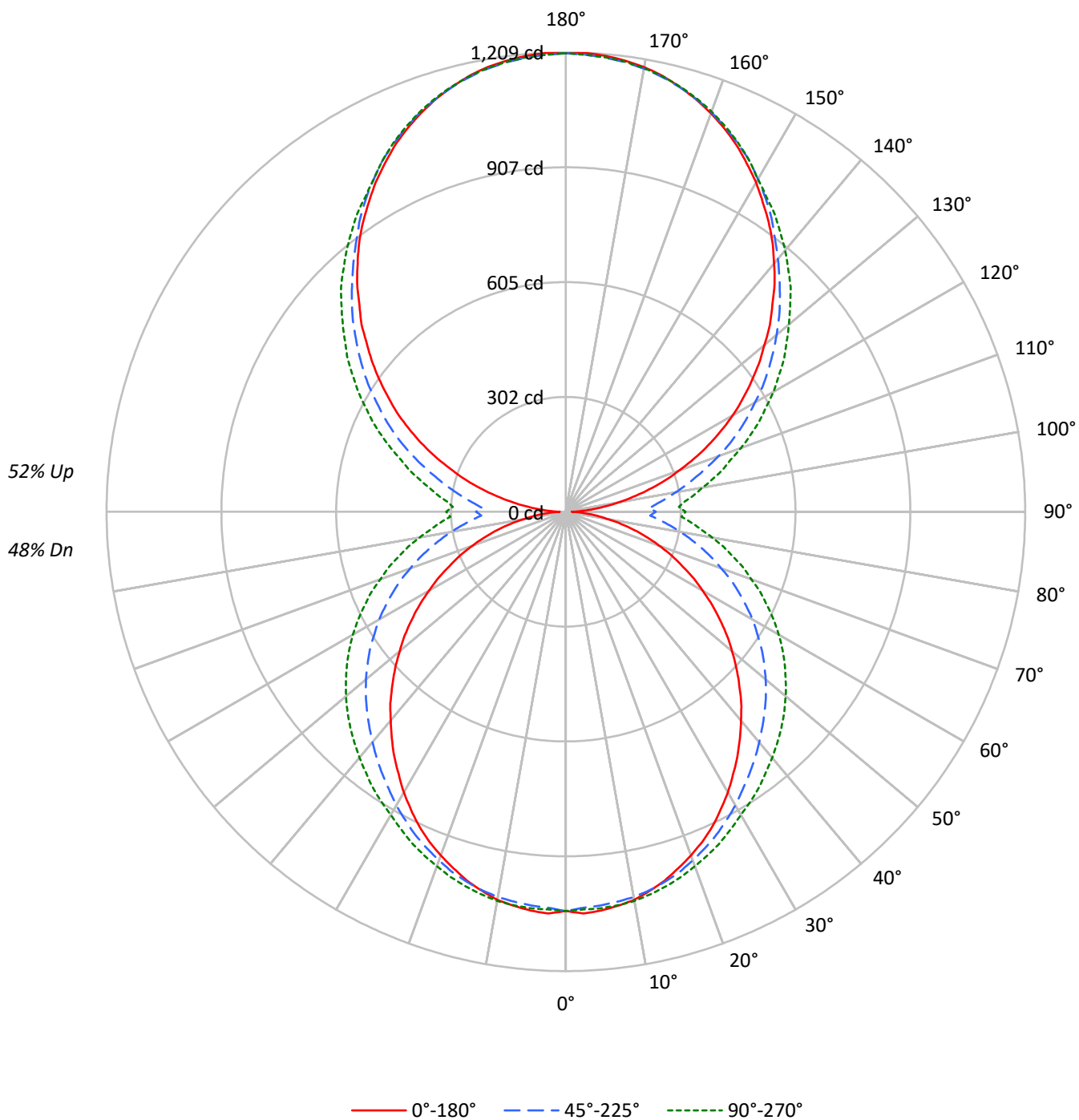
Lumens per Lamp: N/A
Luminaire Lumens: 7386.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	107	107	107	107	98	98	98	98	82	82	82		68	68	68		55
1	96	91	87	83	88	84	80	76	70	67	65		57	55	54		46
2	87	79	72	66	79	72	66	62	61	56	52		50	46	44		40
3	79	69	61	54	72	63	56	51	53	48	43		43	39	36		35
4	72	60	52	46	66	56	48	43	47	41	37		38	34	31		31
5	66	54	45	39	60	49	42	36	42	36	31		34	30	26		27
6	60	48	39	33	55	44	37	31	37	31	27		31	26	23		25
7	56	43	35	29	51	40	33	27	34	28	24		28	23	20		23
8	52	39	31	26	47	36	29	24	31	25	21		26	21	18		21
9	48	36	28	23	44	33	26	21	28	22	19		23	19	16		19
10	45	33	25	20	41	30	24	19	26	20	17		22	17	14		18

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	1.3
10°-20°	285.7	3.9
20°-30°	432.8	5.9
30°-40°	527.1	7.1
40°-50°	567.1	7.7
50°-60°	550.7	7.5
60°-70°	481.0	6.5
70°-80°	370.2	5.0
80°-90°	251.4	3.4
90°-100°	245.7	3.3
100°-110°	362.2	4.9
110°-120°	488.5	6.6
120°-130°	579.9	7.9
130°-140°	618.7	8.4
140°-150°	591.1	8.0
150°-160°	493.1	6.7
160°-170°	327.0	4.4
170°-180°	114.3	1.5
0°-30°	818.1	11.1
0°-40°	1345.2	18.2
0°-60°	2463.0	33.3
0°-90°	3565.5	48.3
90°-120°	1096.4	14.8
90°-150°	2886.1	39.1
90°-180°	3820.0	51.7
0°-180°	7386.0	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	117	237	296	315	14
95°	65	147	240	298	314	69
105°	226	274	355	410	427	240
115°	413	436	503	547	561	408
125°	596	605	650	689	701	533
135°	768	780	797	828	837	594
145°	931	938	944	954	958	582
155°	1064	1067	1070	1075	1072	490
165°	1158	1157	1157	1164	1159	327
175°	1205	1202	1200	1207	1200	114
180°	1207	1207	1207	1207	1207	

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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°	16.2	116.7	236.6	295.5	314.8
92.5°	36.1	124.9	218.9	279.3	297.6
95°	65.2	146.8	240.3	298.2	314.3
97.5°	99.3	173.9	266.3	322.6	340.9
100°	140.0	204.5	292.8	349.1	364.9
102.5°	181.2	237.6	323.9	379.7	395.5
105°	226.5	273.8	355.0	410.3	427.1
107.5°	273.4	314.0	390.1	443.0	454.6
110°	316.7	353.2	427.9	476.6	490.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.5	396.1	465.0	510.7	525.4
115°	413.4	436.2	502.8	547.4	561.1
117.5°	459.8	480.0	538.9	581.6	593.7
120°	507.6	521.9	574.6	617.2	631.0
122.5°	551.4	563.1	614.3	652.3	664.0
125°	595.6	604.8	650.5	688.6	701.3
127.5°	640.4	650.1	687.2	721.2	731.8
130°	682.2	693.9	723.9	758.4	766.5
132.5°	729.0	737.7	761.6	791.5	800.7
135°	768.3	779.5	796.7	827.7	836.8
137.5°	813.1	822.2	831.9	859.8	866.4
140°	852.8	860.4	868.5	892.9	898.0
142.5°	893.5	901.2	904.2	923.5	927.1
145°	930.7	937.8	943.9	954.1	957.6
147.5°	965.3	974.5	978.6	982.1	982.6
150°	1001.0	1007.1	1011.1	1014.2	1011.1
152.5°	1032.5	1038.6	1043.7	1047.8	1043.7
155°	1064.1	1067.1	1070.2	1075.3	1072.2
157.5°	1091.6	1093.6	1095.7	1102.8	1097.7
160°	1116.0	1118.1	1119.1	1125.2	1121.1
162.5°	1138.4	1138.4	1139.4	1146.6	1141.5
165°	1157.8	1156.8	1156.8	1163.9	1158.8
167.5°	1175.1	1172.0	1172.0	1179.2	1174.1
170°	1188.3	1185.3	1184.2	1191.4	1185.3
172.5°	1197.5	1194.4	1193.4	1200.5	1194.4
175°	1204.6	1201.6	1199.5	1206.7	1200.5
177.5°	1208.7	1205.6	1203.6	1209.7	1203.6
180°	1206.7	1206.7	1206.7	1206.7	1206.7

(END OF REPORT)