

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: P1029285

Luminaire Tested: S122DIW-B1005D970UB2750-4F0-XX-W2A-D1_3500K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029285
REPORT IS A COMBINATION OF REPORTS P985404 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_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

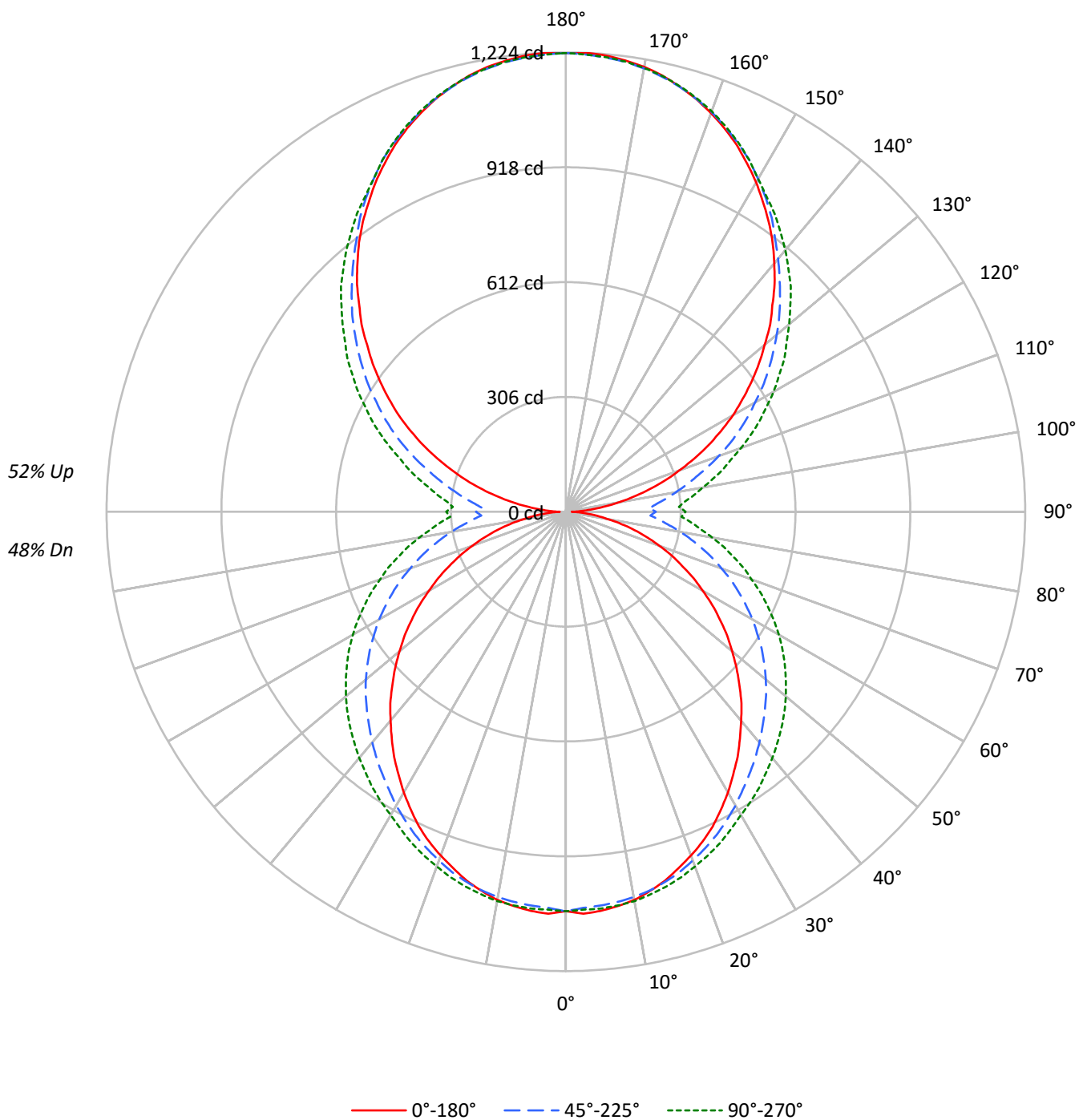
Lumens per Lamp: N/A
Luminaire Lumens: 7482.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	30	10
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55
1	96	91	87	83	88	84	80	76	70	67	65	57	55	54	46	44	43
2	87	79	72	66	79	72	66	62	61	56	52	50	46	44	40	37	35
3	79	69	61	54	72	63	56	51	53	48	43	43	39	36	35	32	29
4	72	60	52	46	66	56	48	43	47	41	37	38	34	31	31	27	25
5	66	54	45	39	60	49	42	36	42	36	31	34	30	26	27	24	21
6	60	48	39	33	55	44	37	31	37	31	27	31	26	23	25	21	19
7	56	43	35	29	51	40	33	27	34	28	24	28	23	20	23	19	16
8	52	39	31	26	47	36	29	24	31	25	21	26	21	18	21	17	15
9	48	36	28	23	44	33	26	21	28	22	19	23	19	16	19	16	13
10	45	33	25	20	41	30	24	19	26	20	17	22	17	14	18	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16847	16847	16847
5°	16924	16128	16037
10°	16809	15569	15342
15°	16572	14992	14631
20°	16273	14385	13954
25°	15978	13805	13340
30°	15564	13214	12733
35°	15146	12644	12286
40°	14704	12153	11844
45°	14283	11705	11458
50°	13832	11295	11076
55°	13358	10856	10688
60°	12778	10401	10279
65°	12172	9879	9810
70°	11489	9316	9305
75°	10612	8755	8828
80°	9237	8169	8334
85°	7840	7620	7908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14283 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.3
10°-20°	289.4	3.9
20°-30°	438.5	5.9
30°-40°	533.9	7.1
40°-50°	574.5	7.7
50°-60°	557.9	7.5
60°-70°	487.2	6.5
70°-80°	375.0	5.0
80°-90°	254.6	3.4
90°-100°	248.9	3.3
100°-110°	366.9	4.9
110°-120°	494.9	6.6
120°-130°	587.5	7.9
130°-140°	626.8	8.4
140°-150°	598.8	8.0
150°-160°	499.5	6.7
160°-170°	331.3	4.4
170°-180°	115.8	1.5
0°-30°	828.7	11.1
0°-40°	1362.6	18.2
0°-60°	2495.0	33.3
0°-90°	3611.8	48.3
90°-120°	1110.7	14.8
90°-150°	2923.7	39.1
90°-180°	3870.0	51.7
0°-180°	7482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1067	1063	1054	1063	1061	101
15°	1018	1021	1021	1035	1034	287
25°	926	936	950	969	973	426
35°	798	824	853	887	898	498
45°	654	696	750	798	813	505
55°	501	557	637	693	713	448
65°	342	418	509	572	592	340
75°	190	276	375	441	461	201
85°	56	151	250	315	336	59
90°	16	118	240	299	319	14
95°	66	149	243	302	318	70
105°	230	277	360	416	433	243
115°	419	442	509	554	568	414
125°	604	613	659	698	710	540
135°	778	790	807	838	848	602
145°	943	950	956	967	970	589
155°	1078	1081	1084	1089	1086	496
165°	1173	1172	1172	1179	1174	331
175°	1220	1217	1215	1222	1216	116
180°	1222	1222	1222	1222	1222	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.3	1064.3	1064.3	1064.3	1064.3
2.5°	1072.0	1067.4	1056.6	1064.3	1061.2
5°	1067.4	1062.8	1053.5	1062.8	1061.2
7.5°	1059.7	1056.6	1048.9	1059.7	1058.1
10°	1050.4	1047.3	1042.7	1055.0	1053.5
12.5°	1035.0	1036.5	1033.5	1045.8	1044.2
15°	1018.0	1021.1	1021.1	1035.0	1033.5
17.5°	996.4	1002.6	1007.2	1021.1	1021.1
20°	974.8	982.6	988.7	1005.7	1005.7
22.5°	951.7	961.0	970.2	987.2	990.3
25°	925.5	936.3	950.2	968.7	973.3
27.5°	894.6	911.6	927.0	950.2	953.2
30°	863.8	883.8	903.9	928.6	933.2
32.5°	829.8	853.0	877.7	907.0	916.2
35°	797.5	823.7	853.0	886.9	897.7
37.5°	762.0	791.3	828.3	865.3	876.1
40°	726.5	760.4	802.1	842.2	856.1
42.5°	692.6	726.5	775.9	820.6	834.5
45°	654.0	695.7	749.6	797.5	812.9
47.5°	617.0	661.7	723.4	772.8	789.7
50°	578.4	626.2	695.7	748.1	765.1
52.5°	541.4	592.3	666.3	720.3	738.8
55°	501.3	556.8	637.0	692.6	712.6
57.5°	462.7	524.4	604.6	664.8	684.9
60°	421.1	487.4	575.3	634.0	655.5
62.5°	384.1	453.5	541.4	604.6	624.7
65°	342.4	418.0	509.0	572.3	592.3
67.5°	305.4	384.1	476.6	539.9	561.5
70°	265.3	345.5	441.1	507.5	526.0
72.5°	228.3	311.6	408.8	473.5	496.7
75°	189.7	276.1	374.8	441.1	461.2
77.5°	152.7	242.2	342.4	408.8	430.3
80°	115.7	209.8	310.0	374.8	396.4
82.5°	84.8	177.4	279.2	344.0	364.0
85°	55.5	151.2	249.9	314.7	336.3
87.5°	33.9	126.5	225.2	288.4	308.5
90°	16.4	118.3	239.7	299.3	318.9
92.5°	36.6	126.5	221.7	282.9	301.4
95°	65.9	148.8	243.4	302.0	318.5
97.5°	100.5	176.1	269.8	326.9	345.4
100°	141.8	207.2	296.6	353.7	369.6
102.5°	183.6	240.7	328.0	384.7	400.5
105°	229.5	277.3	359.6	415.6	432.6
107.5°	276.9	318.1	395.3	448.7	460.5
110°	320.8	357.8	433.4	482.8	496.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	370.3	401.1	471.1	517.4	532.2
115°	418.8	441.9	509.2	554.5	568.4
117.5°	465.7	486.3	546.0	589.1	601.4
120°	514.2	528.6	582.1	625.3	639.2
122.5°	558.5	570.5	622.3	660.9	672.7
125°	603.5	612.7	658.9	697.5	710.4
127.5°	648.8	658.6	696.2	730.6	741.3
130°	691.1	702.9	733.3	768.3	776.5
132.5°	738.6	747.3	771.5	801.9	811.1
135°	778.2	789.6	807.2	838.5	847.7
137.5°	823.6	832.9	842.8	871.1	877.7
140°	863.9	871.6	879.9	904.6	909.7
142.5°	905.1	912.9	916.0	935.5	939.1
145°	942.8	950.0	956.2	966.6	970.1
147.5°	977.9	987.2	991.3	994.9	995.4
150°	1014.0	1020.2	1024.3	1027.4	1024.3
152.5°	1046.0	1052.2	1057.3	1061.5	1057.3
155°	1078.0	1081.1	1084.1	1089.3	1086.2
157.5°	1105.8	1107.9	1109.9	1117.2	1112.0
160°	1130.6	1132.6	1133.7	1139.8	1135.7
162.5°	1153.3	1153.3	1154.3	1161.5	1156.4
165°	1172.9	1171.8	1171.8	1179.0	1173.9
167.5°	1190.4	1187.3	1187.3	1194.5	1189.4
170°	1203.8	1200.7	1199.7	1206.9	1200.7
172.5°	1213.1	1210.0	1209.0	1216.2	1210.0
175°	1220.3	1217.2	1215.2	1222.4	1216.2
177.5°	1224.4	1221.3	1219.3	1225.5	1219.3
180°	1222.4	1222.4	1222.4	1222.4	1222.4

(END OF REPORT)