

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: P1029594

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029594
REPORT IS A COMBINATION OF REPORTS P986331 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B485D970UB2750-4F0-XX-W2A-F_5000K
Description: Define 2 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

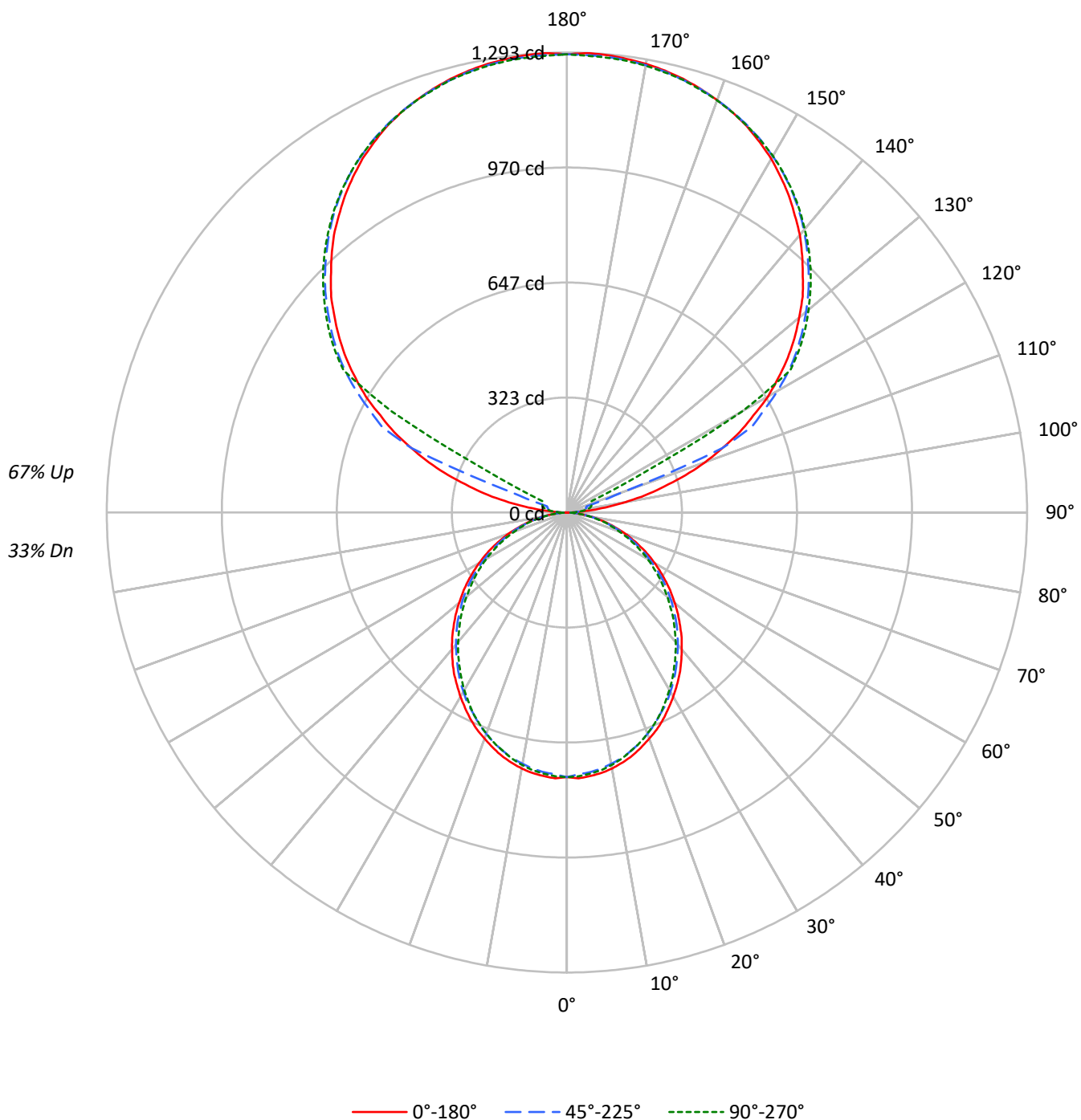
Lumens per Lamp: N/A
Luminaire Lumens: 5670.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.5
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	30	10
RCR																	
0	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	32	30	29
3	78	69	62	56	70	62	56	51	50	46	42	39	36	33	28	26	25
4	71	61	53	47	64	55	49	43	44	40	36	34	31	28	25	23	21
5	65	54	46	40	59	49	42	37	40	35	31	31	27	25	23	20	19
6	60	48	41	35	54	44	37	32	36	31	27	28	24	21	21	18	16
7	56	44	36	30	50	40	33	28	32	27	23	25	22	19	19	16	14
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	15	13
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	13	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11772	11772	11772
5°	11791	11220	11141
10°	11695	10709	10497
15°	11524	10194	9819
20°	11291	9633	9177
25°	11061	9048	8536
30°	10771	8498	7863
35°	10497	7919	7203
40°	10160	7345	6579
45°	9824	6777	5966
50°	9455	6199	5332
55°	9070	5582	4729
60°	8636	4912	4104
65°	8159	4233	3447
70°	7557	3489	2783
75°	6718	2689	2149
80°	5708	1829	1383
85°	4139	851	588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.2
10°-20°	196.9	3.5
20°-30°	289.4	5.1
30°-40°	336.1	5.9
40°-50°	335.7	5.9
50°-60°	292.7	5.2
60°-70°	216.4	3.8
70°-80°	122.4	2.2
80°-90°	34.6	0.6
90°-100°	42.5	0.7
100°-110°	158.3	2.8
110°-120°	419.9	7.4
120°-130°	696.4	12.3
130°-140°	739.7	13.0
140°-150°	687.5	12.1
150°-160°	552.7	9.7
160°-170°	356.2	6.3
170°-180°	122.6	2.2
0°-30°	556.3	9.8
0°-40°	892.4	15.7
0°-60°	1520.9	26.8
0°-90°	1894.3	33.4
90°-120°	620.7	10.9
90°-150°	2744.3	48.4
90°-180°	3776.0	66.6
0°-180°	5670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	744	741	733	739	737	71
15°	708	704	694	697	694	199
25°	641	635	623	624	623	295
35°	553	546	534	530	526	345
45°	450	445	434	426	423	347
55°	340	336	328	319	315	304
65°	230	225	218	212	208	227
75°	120	119	115	111	112	128
85°	29	29	28	26	25	33
90°	1	11	19	23	25	5
95°	61	30	36	41	40	72
105°	283	311	57	67	71	303
115°	536	552	575	144	76	527
125°	758	770	788	794	797	676
135°	938	952	961	970	968	724
145°	1088	1087	1102	1109	1104	680
155°	1198	1189	1200	1206	1198	552
165°	1262	1256	1259	1266	1259	356
175°	1291	1284	1286	1293	1283	123
180°	1288	1288	1288	1288	1288	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.7	743.7	743.7	743.7	743.7
2.5°	748.0	744.4	736.5	743.7	742.2
5°	743.7	740.8	732.9	738.7	737.2
7.5°	738.7	734.4	726.5	732.2	730.8
10°	730.8	725.8	717.2	722.9	720.8
12.5°	720.1	715.8	707.2	710.8	709.3
15°	707.9	703.6	694.3	697.2	693.6
17.5°	692.9	688.6	679.3	682.9	679.3
20°	676.4	672.2	662.1	664.3	661.4
22.5°	660.0	653.6	644.3	644.3	642.8
25°	640.7	635.0	622.8	624.2	622.8
27.5°	619.2	614.2	604.9	602.8	599.2
30°	597.8	592.1	581.3	579.2	576.3
32.5°	574.9	570.6	559.2	554.9	552.0
35°	552.7	545.6	534.2	529.9	526.3
37.5°	527.7	521.3	509.8	504.8	501.3
40°	502.0	496.3	484.8	478.4	475.5
42.5°	476.9	471.2	459.8	452.6	448.3
45°	449.8	444.8	434.0	426.2	423.3
47.5°	423.3	418.3	406.9	399.0	394.7
50°	395.4	391.9	381.8	371.8	368.3
52.5°	368.3	363.3	354.0	346.1	341.1
55°	340.4	336.1	327.5	318.9	315.3
57.5°	312.5	308.9	299.6	291.0	288.2
60°	284.6	281.7	271.7	263.9	261.7
62.5°	257.4	252.4	245.3	238.1	235.3
65°	229.5	225.2	218.1	211.7	208.1
67.5°	200.9	197.4	190.9	185.9	183.1
70°	174.5	171.6	165.2	160.2	157.3
72.5°	147.3	144.4	140.9	135.9	133.7
75°	120.1	118.7	115.1	110.8	112.3
77.5°	95.8	93.0	91.5	89.4	87.2
80°	71.5	70.8	69.4	67.2	65.8
82.5°	48.6	48.6	47.9	45.0	45.0
85°	29.3	28.6	27.9	25.7	25.0
87.5°	12.9	11.4	10.0	7.9	7.2
90°	0.9	11.2	18.6	23.3	25.2
92.5°	23.3	19.6	22.4	24.2	25.2
95°	60.6	29.8	36.3	41.0	40.1
97.5°	109.0	32.6	47.5	50.3	51.3
100°	165.0	37.3	53.1	60.6	62.4
102.5°	226.5	224.6	55.0	65.2	68.0
105°	283.3	311.3	56.8	67.1	70.8
107.5°	349.5	372.8	58.7	69.0	72.7
110°	412.8	432.4	163.1	69.9	73.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	472.5	489.3	473.4	71.8	74.6
115°	535.9	551.7	575.0	143.5	76.4
117.5°	590.8	609.5	625.3	492.1	247.9
120°	652.3	666.3	683.1	694.3	568.5
122.5°	704.5	719.4	738.1	743.7	744.6
125°	757.7	769.8	787.5	794.0	796.8
127.5°	806.1	819.2	833.1	842.5	843.4
130°	851.8	866.7	876.9	887.2	886.3
132.5°	898.4	910.5	920.7	929.1	928.2
135°	937.5	952.4	960.8	970.1	968.3
137.5°	978.5	989.7	999.0	1008.3	1005.5
140°	1018.6	1026.1	1036.3	1044.7	1040.0
142.5°	1052.1	1058.7	1070.8	1078.2	1073.6
145°	1087.6	1086.6	1102.5	1109.0	1104.3
147.5°	1118.3	1115.5	1131.4	1136.0	1132.3
150°	1148.1	1141.6	1156.5	1162.1	1157.5
152.5°	1173.3	1165.8	1179.8	1185.4	1178.9
155°	1197.5	1189.1	1200.3	1205.9	1198.5
157.5°	1217.1	1209.6	1218.0	1224.6	1217.1
160°	1233.9	1228.3	1233.9	1239.5	1232.9
162.5°	1248.8	1243.2	1247.8	1254.4	1246.0
165°	1261.8	1256.2	1259.0	1265.6	1259.0
167.5°	1272.1	1266.5	1269.3	1275.8	1267.4
170°	1280.5	1274.9	1276.7	1283.3	1274.9
172.5°	1286.1	1280.5	1282.3	1288.9	1280.5
175°	1290.7	1284.2	1286.1	1292.6	1283.3
177.5°	1292.6	1286.1	1287.0	1293.5	1285.1
180°	1287.9	1287.9	1287.9	1287.9	1287.9

(END OF REPORT)