

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: P1029592

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029592
REPORT IS A COMBINATION OF REPORTS P986328 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_3000K
Description: Define 2 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

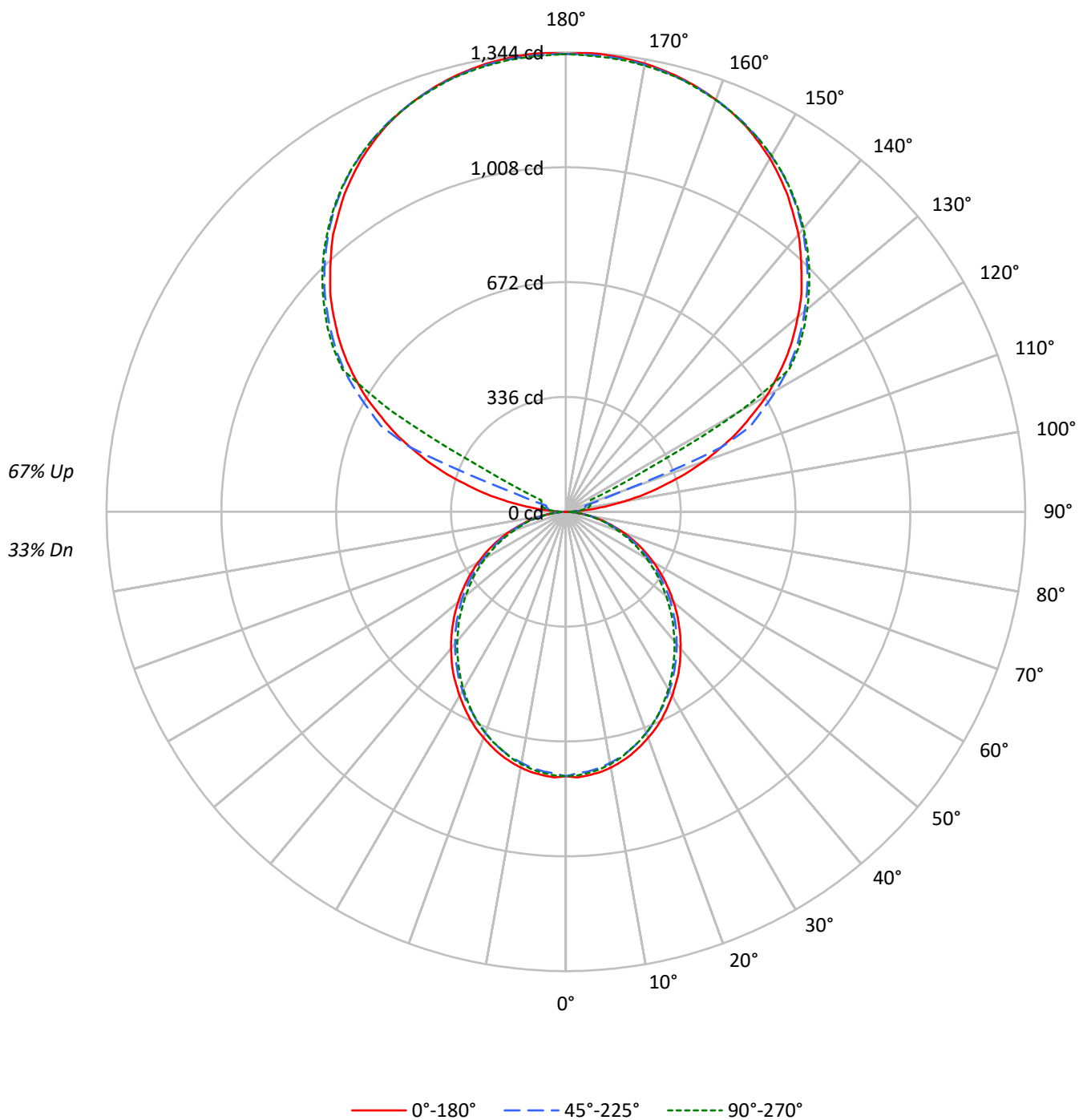
Lumens per Lamp: N/A
Luminaire Lumens: 5897.0 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	40	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°	12244	12244	12244
5°	12264	11672	11588
10°	12164	11139	10918
15°	11986	10603	10214
20°	11745	10020	9546
25°	11505	9411	8879
30°	11204	8840	8180
35°	10918	8236	7492
40°	10567	7641	6843
45°	10217	7050	6206
50°	9836	6449	5545
55°	9433	5807	4919
60°	8982	5109	4268
65°	8489	4404	3584
70°	7860	3628	2894
75°	6993	2796	2236
80°	5940	1900	1438
85°	4308	884	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10217 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.2
10°-20°	204.8	3.5
20°-30°	301.0	5.1
30°-40°	349.6	5.9
40°-50°	349.2	5.9
50°-60°	304.5	5.2
60°-70°	225.1	3.8
70°-80°	127.3	2.2
80°-90°	36.0	0.6
90°-100°	44.2	0.7
100°-110°	164.6	2.8
110°-120°	436.7	7.4
120°-130°	724.2	12.3
130°-140°	769.3	13.0
140°-150°	715.0	12.1
150°-160°	574.8	9.7
160°-170°	370.4	6.3
170°-180°	127.5	2.2
0°-30°	578.7	9.8
0°-40°	928.3	15.7
0°-60°	1582.0	26.8
0°-90°	1970.4	33.4
90°-120°	645.5	10.9
90°-150°	2853.9	48.4
90°-180°	3927.0	66.6
0°-180°	5897.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	774	771	762	768	767	73
15°	736	732	722	725	722	207
25°	666	660	648	649	648	307
35°	575	568	556	551	547	359
45°	468	463	452	443	440	361
55°	354	350	341	332	328	317
65°	239	234	227	220	216	236
75°	125	124	120	115	117	133
85°	30	30	29	27	26	34
90°	1	12	19	24	26	5
95°	63	31	38	43	42	75
105°	295	324	59	70	74	315
115°	557	574	598	149	80	549
125°	788	800	819	826	829	703
135°	975	990	999	1009	1007	753
145°	1131	1130	1146	1153	1148	707
155°	1245	1237	1248	1254	1246	574
165°	1312	1306	1309	1316	1309	371
175°	1342	1336	1338	1344	1335	128
180°	1339	1339	1339	1339	1339	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.5	773.5	773.5	773.5	773.5
2.5°	778.0	774.3	766.1	773.5	772.0
5°	773.5	770.6	762.4	768.3	766.8
7.5°	768.3	763.9	755.7	761.6	760.1
10°	760.1	754.9	746.0	752.0	749.7
12.5°	749.0	744.5	735.6	739.3	737.8
15°	736.3	731.9	722.2	725.2	721.5
17.5°	720.7	716.3	706.6	710.3	706.6
20°	703.6	699.2	688.7	691.0	688.0
22.5°	686.5	679.8	670.2	670.2	668.7
25°	666.4	660.5	647.8	649.3	647.8
27.5°	644.1	638.9	629.2	627.0	623.3
30°	621.8	615.9	604.7	602.5	599.5
32.5°	598.0	593.5	581.6	577.2	574.2
35°	574.9	567.5	555.6	551.1	547.4
37.5°	548.9	542.2	530.3	525.1	521.4
40°	522.1	516.2	504.3	497.6	494.6
42.5°	496.1	490.2	478.3	470.8	466.4
45°	467.8	462.6	451.5	443.3	440.3
47.5°	440.3	435.1	423.2	415.0	410.6
50°	411.3	407.6	397.2	386.8	383.0
52.5°	383.0	377.8	368.2	360.0	354.8
55°	354.0	349.6	340.7	331.7	328.0
57.5°	325.0	321.3	311.6	302.7	299.7
60°	296.0	293.1	282.6	274.5	272.2
62.5°	267.8	262.6	255.1	247.7	244.7
65°	238.8	234.3	226.9	220.2	216.4
67.5°	209.0	205.3	198.6	193.4	190.4
70°	181.5	178.5	171.8	166.6	163.6
72.5°	153.2	150.2	146.5	141.3	139.1
75°	125.0	123.5	119.7	115.3	116.8
77.5°	99.7	96.7	95.2	93.0	90.7
80°	74.4	73.6	72.1	69.9	68.4
82.5°	50.6	50.6	49.8	46.9	46.9
85°	30.5	29.8	29.0	26.8	26.0
87.5°	13.4	11.9	10.4	8.2	7.4
90°	1.0	11.6	19.4	24.2	26.2
92.5°	24.2	20.4	23.3	25.2	26.2
95°	63.0	31.0	37.8	42.6	41.7
97.5°	113.4	33.9	49.4	52.3	53.3
100°	171.5	38.8	55.2	63.0	64.9
102.5°	235.5	233.6	57.2	67.8	70.7
105°	294.6	323.7	59.1	69.8	73.7
107.5°	363.4	387.7	61.1	71.7	75.6
110°	429.3	449.7	169.6	72.7	76.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	491.4	508.8	492.3	74.6	77.5
115°	557.3	573.8	598.0	149.3	79.5
117.5°	614.5	633.8	650.3	511.7	257.8
120°	678.4	693.0	710.4	722.0	591.2
122.5°	732.7	748.2	767.6	773.4	774.4
125°	787.9	800.5	819.0	825.7	828.6
127.5°	838.3	851.9	866.4	876.1	877.1
130°	885.8	901.3	912.0	922.7	921.7
132.5°	934.3	946.9	957.5	966.3	965.3
135°	975.0	990.5	999.2	1008.9	1007.0
137.5°	1017.6	1029.3	1039.0	1048.6	1045.7
140°	1059.3	1067.1	1077.7	1086.4	1081.6
142.5°	1094.2	1101.0	1113.6	1121.3	1116.5
145°	1131.0	1130.1	1146.5	1153.3	1148.5
147.5°	1163.0	1160.1	1176.6	1181.4	1177.5
150°	1194.0	1187.2	1202.7	1208.6	1203.7
152.5°	1220.2	1212.4	1227.0	1232.8	1226.0
155°	1245.4	1236.7	1248.3	1254.1	1246.4
157.5°	1265.7	1258.0	1266.7	1273.5	1265.7
160°	1283.2	1277.4	1283.2	1289.0	1282.2
162.5°	1298.7	1292.9	1297.7	1304.5	1295.8
165°	1312.3	1306.4	1309.4	1316.1	1309.4
167.5°	1322.9	1317.1	1320.0	1326.8	1318.1
170°	1331.6	1325.8	1327.8	1334.6	1325.8
172.5°	1337.5	1331.6	1333.6	1340.4	1331.6
175°	1342.3	1335.5	1337.5	1344.2	1334.6
177.5°	1344.2	1337.5	1338.4	1345.2	1336.5
180°	1339.4	1339.4	1339.4	1339.4	1339.4

(END OF REPORT)