

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: P1031272

Luminaire Tested: S123DIW-B1000D1030UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031272
REPORT IS A COMBINATION OF REPORTS P990552 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1000D1030UB30-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

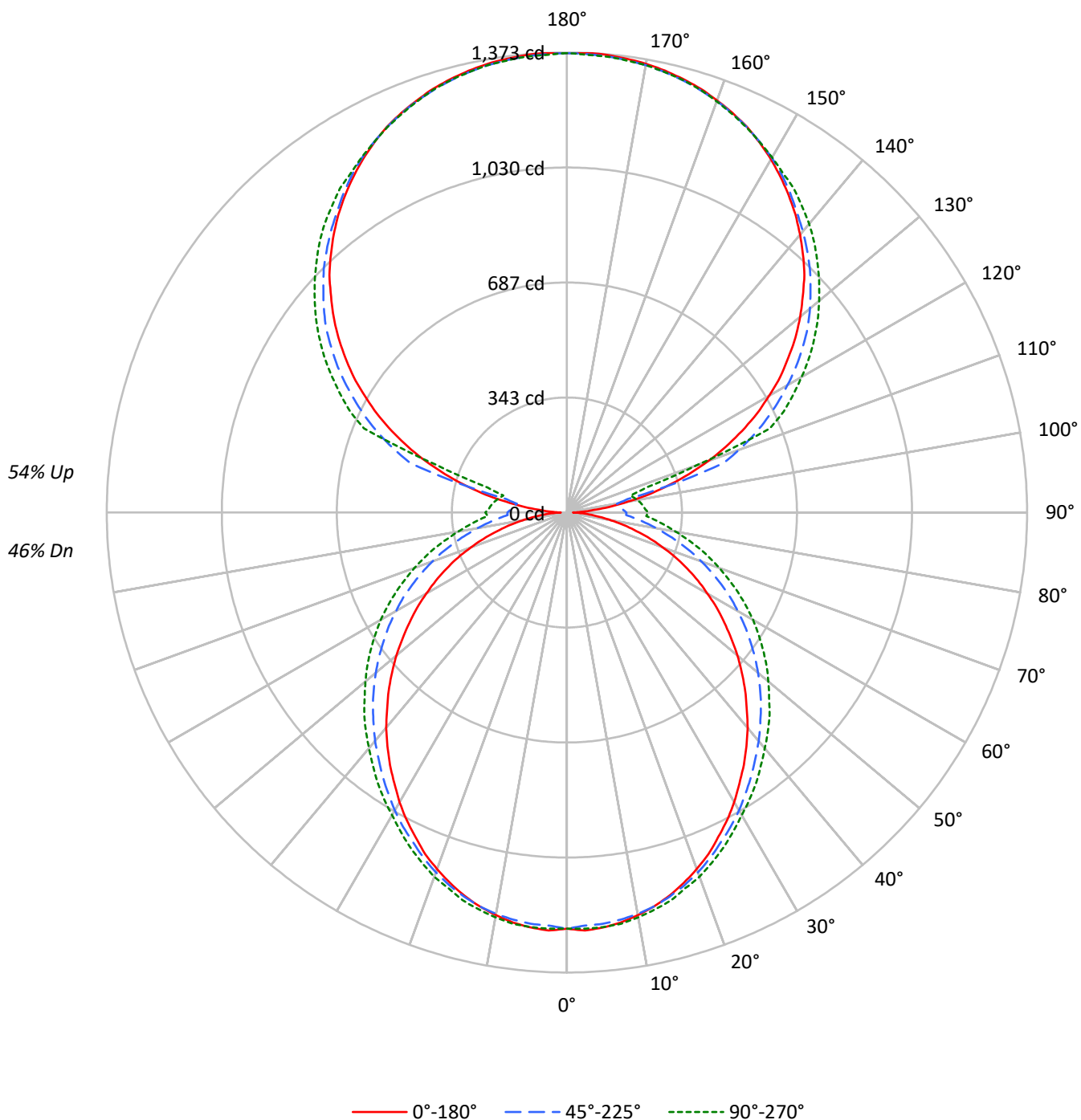
Lumens per Lamp: N/A
Luminaire Lumens: 8357.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 78.3
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	96	91	87	83	88	84	80	77	70	67	64	57	55	53	45	43	42
2	87	79	73	67	79	73	67	62	60	56	53	49	46	43	39	37	35
3	79	69	62	55	72	64	57	51	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22
6	61	48	40	34	55	45	37	32	38	32	28	31	26	23	25	21	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	22	19	17
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	20	17	15
9	48	36	28	23	44	33	27	22	28	23	19	23	19	16	19	16	13
10	45	33	26	21	41	31	24	20	26	21	17	22	17	15	18	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13369	13369	13369
5°	13405	12976	12966
10°	13279	12625	12529
15°	13104	12237	12065
20°	12854	11804	11566
25°	12548	11317	11051
30°	12233	10876	10532
35°	11881	10413	10110
40°	11544	9989	9664
45°	11171	9580	9297
50°	10802	9175	8898
55°	10393	8758	8531
60°	9993	8332	8156
65°	9582	7879	7716
70°	8964	7369	7261
75°	8182	6788	6793
80°	7269	6203	6260
85°	6368	5725	5878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.4
10°-20°	335.9	4.0
20°-30°	502.3	6.0
30°-40°	599.7	7.2
40°-50°	627.4	7.5
50°-60°	588.8	7.0
60°-70°	491.8	5.9
70°-80°	351.7	4.2
80°-90°	212.0	2.5
90°-100°	179.8	2.2
100°-110°	330.4	4.0
110°-120°	637.4	7.6
120°-130°	764.1	9.1
130°-140°	793.5	9.5
140°-150°	730.0	8.7
150°-160°	586.0	7.0
160°-170°	378.2	4.5
170°-180°	130.3	1.6
0°-30°	955.9	11.4
0°-40°	1555.6	18.6
0°-60°	2771.8	33.2
0°-90°	3827.2	45.8
90°-120°	1147.7	13.7
90°-150°	3435.3	41.1
90°-180°	4530.0	54.2
0°-180°	8357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1243	1241	1232	1243	1242	118
15°	1184	1188	1186	1200	1199	333
25°	1069	1082	1086	1104	1104	493
35°	920	942	959	980	985	575
45°	752	785	818	844	855	580
55°	574	618	667	704	714	514
65°	396	449	509	549	563	392
75°	215	279	346	391	407	230
85°	66	134	206	252	265	68
90°	19	95	177	227	243	16
95°	77	88	166	215	228	86
105°	314	358	325	182	196	333
115°	576	599	656	699	714	569
125°	807	815	858	889	900	721
135°	1002	1007	1026	1053	1057	772
145°	1155	1160	1162	1175	1181	723
155°	1270	1268	1269	1274	1268	585
165°	1340	1337	1336	1344	1337	379
175°	1371	1366	1367	1374	1366	130
180°	1371	1371	1371	1371	1371	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.0	1242.0	1242.0	1242.0	1242.0
2.5°	1248.7	1244.7	1233.9	1244.7	1243.3
5°	1243.3	1240.6	1232.5	1243.3	1242.0
7.5°	1233.9	1233.9	1225.7	1239.3	1237.9
10°	1220.3	1223.0	1216.3	1229.8	1227.1
12.5°	1204.1	1208.1	1204.1	1216.3	1213.6
15°	1183.8	1187.9	1186.5	1200.0	1198.7
17.5°	1159.4	1167.6	1166.2	1178.4	1175.7
20°	1132.4	1140.5	1143.2	1155.4	1156.7
22.5°	1104.0	1112.1	1116.2	1132.4	1131.0
25°	1068.8	1082.3	1086.4	1104.0	1104.0
27.5°	1035.0	1049.9	1058.0	1072.9	1074.2
30°	998.4	1016.0	1026.9	1043.1	1043.1
32.5°	957.9	978.2	993.0	1010.6	1014.7
35°	920.0	941.6	959.2	979.5	984.9
37.5°	879.4	903.7	924.0	947.0	951.1
40°	838.8	863.2	890.2	913.2	918.6
42.5°	794.2	825.3	853.7	879.4	887.5
45°	752.2	784.7	818.5	844.2	855.0
47.5°	707.6	744.1	782.0	810.4	818.5
50°	664.3	702.2	744.1	775.2	784.7
52.5°	618.3	658.9	706.2	738.7	750.9
55°	573.6	618.3	667.0	703.5	714.3
57.5°	530.3	576.3	629.1	665.6	677.8
60°	484.3	533.0	588.5	626.4	641.3
62.5°	441.0	491.1	550.6	588.5	602.0
65°	396.4	449.2	508.7	549.3	562.8
67.5°	351.8	407.2	466.8	511.4	522.2
70°	304.4	362.6	427.5	470.8	484.3
72.5°	261.1	319.3	386.9	431.6	445.1
75°	215.1	278.7	346.3	391.0	407.2
77.5°	175.9	239.5	307.1	354.5	366.6
80°	133.9	200.2	270.6	316.6	330.1
82.5°	97.4	165.1	236.8	282.8	296.3
85°	66.3	133.9	205.6	251.6	265.2
87.5°	40.6	108.2	177.2	223.2	236.8
90°	18.6	95.1	177.3	227.4	243.0
92.5°	39.6	91.7	168.6	220.3	233.5
95°	77.0	88.0	165.5	214.6	228.1
97.5°	126.6	146.8	158.4	207.1	221.7
100°	184.4	248.0	151.3	198.7	213.3
102.5°	250.2	301.3	185.0	189.3	204.8
105°	314.4	358.1	324.6	182.1	196.3
107.5°	381.3	418.9	489.7	369.3	248.0
110°	448.2	480.7	546.0	547.6	412.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	513.4	539.5	602.1	645.1	655.3
115°	576.3	598.6	656.5	699.1	714.0
117.5°	639.4	657.4	708.5	749.1	760.9
120°	696.1	712.1	759.7	799.0	808.5
122.5°	755.2	765.0	811.1	845.9	856.4
125°	806.9	815.0	858.3	888.7	900.3
127.5°	859.8	866.6	905.5	935.6	943.1
130°	908.7	915.5	946.7	976.4	982.5
132.5°	954.2	962.3	985.7	1014.2	1020.5
135°	1002.1	1006.9	1025.8	1053.2	1057.0
137.5°	1042.8	1049.7	1061.1	1087.9	1092.6
140°	1082.3	1088.4	1095.4	1119.8	1124.6
142.5°	1120.0	1124.7	1127.7	1148.4	1152.1
145°	1154.6	1160.3	1162.4	1175.2	1180.6
147.5°	1186.8	1191.9	1194.0	1200.1	1200.4
150°	1217.4	1220.4	1222.5	1224.5	1224.2
152.5°	1244.9	1245.9	1246.9	1251.0	1245.9
155°	1270.4	1268.3	1269.3	1274.4	1268.3
157.5°	1290.7	1290.7	1289.7	1295.8	1287.7
160°	1309.1	1308.1	1307.0	1313.1	1306.0
162.5°	1326.4	1323.3	1322.3	1329.4	1323.3
165°	1339.6	1336.6	1335.6	1343.7	1336.6
167.5°	1350.8	1346.8	1346.8	1354.9	1346.8
170°	1360.0	1355.9	1355.9	1364.1	1355.9
172.5°	1366.1	1361.0	1362.0	1370.2	1361.0
175°	1371.2	1366.1	1367.1	1374.3	1366.1
177.5°	1373.3	1368.2	1369.2	1377.3	1367.1
180°	1371.2	1371.2	1371.2	1371.2	1371.2

(END OF REPORT)