

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: P1029591

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029591
REPORT IS A COMBINATION OF REPORTS P986327 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_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

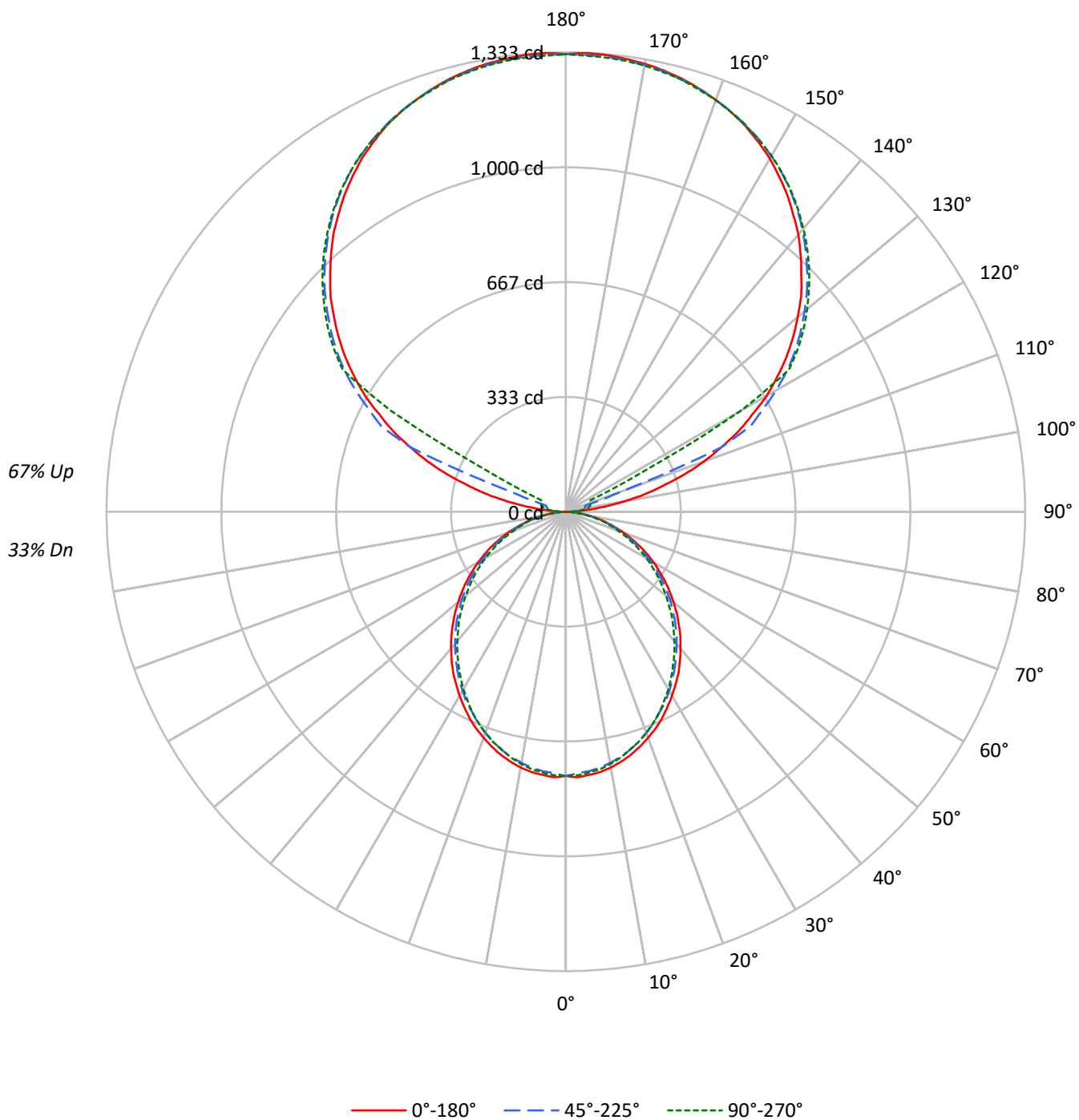
Lumens per Lamp: N/A
Luminaire Lumens: 5846.0 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12139	12139	12139
5°	12159	11571	11488
10°	12060	11044	10825
15°	11883	10512	10125
20°	11644	9934	9464
25°	11407	9330	8802
30°	11106	8764	8109
35°	10825	8165	7428
40°	10476	7574	6783
45°	10129	6989	6152
50°	9752	6394	5497
55°	9353	5755	4877
60°	8906	5066	4232
65°	8415	4365	3554
70°	7791	3597	2869
75°	6931	2773	2216
80°	5884	1884	1425
85°	4266	878	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10129 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.2
10°-20°	203.1	3.5
20°-30°	298.4	5.1
30°-40°	346.6	5.9
40°-50°	346.2	5.9
50°-60°	301.9	5.2
60°-70°	223.1	3.8
70°-80°	126.3	2.2
80°-90°	35.6	0.6
90°-100°	43.8	0.7
100°-110°	163.2	2.8
110°-120°	432.9	7.4
120°-130°	718.0	12.3
130°-140°	762.6	13.0
140°-150°	708.8	12.1
150°-160°	569.8	9.7
160°-170°	367.2	6.3
170°-180°	126.4	2.2
0°-30°	573.7	9.8
0°-40°	920.3	15.7
0°-60°	1568.3	26.8
0°-90°	1953.3	33.4
90°-120°	639.9	10.9
90°-150°	2829.3	48.4
90°-180°	3893.0	66.6
0°-180°	5846.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	764	756	762	760	73
15°	730	726	716	719	715	206
25°	661	655	642	644	642	304
35°	570	563	551	546	543	356
45°	464	459	448	440	436	358
55°	351	347	338	329	325	314
65°	237	232	225	218	215	234
75°	124	122	119	114	116	132
85°	30	30	29	26	26	34
90°	1	12	19	24	26	5
95°	62	31	38	42	41	74
105°	292	321	59	69	73	312
115°	552	569	593	148	79	544
125°	781	794	812	819	822	697
135°	967	982	991	1000	998	747
145°	1121	1120	1137	1143	1138	701
155°	1235	1226	1238	1243	1236	569
165°	1301	1295	1298	1305	1298	368
175°	1331	1324	1326	1333	1323	127
180°	1328	1328	1328	1328	1328	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.9	766.9	766.9	766.9	766.9
2.5°	771.3	767.6	759.5	766.9	765.4
5°	766.9	763.9	755.8	761.7	760.2
7.5°	761.7	757.3	749.2	755.1	753.6
10°	753.6	748.4	739.6	745.5	743.3
12.5°	742.5	738.1	729.2	732.9	731.5
15°	730.0	725.6	716.0	718.9	715.2
17.5°	714.5	710.1	700.5	704.2	700.5
20°	697.5	693.1	682.8	685.0	682.1
22.5°	680.6	673.9	664.4	664.4	662.9
25°	660.7	654.8	642.2	643.7	642.2
27.5°	638.6	633.4	623.8	621.6	617.9
30°	616.4	610.5	599.5	597.3	594.3
32.5°	592.8	588.4	576.6	572.2	569.2
35°	570.0	562.6	550.8	546.4	542.7
37.5°	544.2	537.5	525.7	520.6	516.9
40°	517.6	511.7	499.9	493.3	490.3
42.5°	491.8	485.9	474.1	466.7	462.3
45°	463.8	458.6	447.6	439.5	436.5
47.5°	436.5	431.4	419.6	411.4	407.0
50°	407.8	404.1	393.8	383.4	379.7
52.5°	379.7	374.6	365.0	356.9	351.7
55°	351.0	346.6	337.7	328.9	325.2
57.5°	322.2	318.5	309.0	300.1	297.2
60°	293.5	290.5	280.2	272.1	269.9
62.5°	265.4	260.3	252.9	245.5	242.6
65°	236.7	232.3	224.9	218.3	214.6
67.5°	207.2	203.5	196.9	191.7	188.8
70°	179.9	177.0	170.3	165.2	162.2
72.5°	151.9	148.9	145.3	140.1	137.9
75°	123.9	122.4	118.7	114.3	115.8
77.5°	98.8	95.9	94.4	92.2	90.0
80°	73.7	73.0	71.5	69.3	67.8
82.5°	50.1	50.1	49.4	46.5	46.5
85°	30.2	29.5	28.8	26.5	25.8
87.5°	13.3	11.8	10.3	8.1	7.4
90°	1.0	11.5	19.2	24.0	25.9
92.5°	24.0	20.2	23.1	25.0	25.9
95°	62.5	30.7	37.5	42.3	41.3
97.5°	112.4	33.6	49.0	51.9	52.8
100°	170.1	38.4	54.8	62.5	64.4
102.5°	233.5	231.5	56.7	67.3	70.1
105°	292.1	320.9	58.6	69.2	73.0
107.5°	360.3	384.3	60.5	71.1	74.9
110°	425.6	445.8	168.1	72.1	75.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	487.1	504.4	488.1	74.0	76.9
115°	552.5	568.8	592.8	148.0	78.8
117.5°	609.1	628.4	644.7	507.3	255.6
120°	672.6	687.0	704.3	715.8	586.1
122.5°	726.4	741.7	760.9	766.7	767.7
125°	781.1	793.6	811.9	818.6	821.5
127.5°	831.1	844.5	858.9	868.6	869.5
130°	878.2	893.5	904.1	914.7	913.7
132.5°	926.2	938.7	949.3	957.9	956.9
135°	966.6	981.9	990.6	1000.2	998.3
137.5°	1008.8	1020.4	1030.0	1039.6	1036.7
140°	1050.1	1057.8	1068.4	1077.0	1072.2
142.5°	1084.7	1091.5	1103.9	1111.6	1106.8
145°	1121.2	1120.3	1136.6	1143.3	1138.5
147.5°	1152.9	1150.1	1166.4	1171.2	1167.4
150°	1183.7	1177.0	1192.3	1198.1	1193.3
152.5°	1209.6	1201.9	1216.4	1222.1	1215.4
155°	1234.6	1226.0	1237.5	1243.3	1235.6
157.5°	1254.8	1247.1	1255.7	1262.5	1254.8
160°	1272.1	1266.3	1272.1	1277.8	1271.1
162.5°	1287.5	1281.7	1286.5	1293.2	1284.6
165°	1300.9	1295.1	1298.0	1304.7	1298.0
167.5°	1311.5	1305.7	1308.6	1315.3	1306.7
170°	1320.1	1314.4	1316.3	1323.0	1314.4
172.5°	1325.9	1320.1	1322.0	1328.8	1320.1
175°	1330.7	1324.0	1325.9	1332.6	1323.0
177.5°	1332.6	1325.9	1326.8	1333.6	1324.9
180°	1327.8	1327.8	1327.8	1327.8	1327.8

(END OF REPORT)