

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: P1029587

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-F1_3000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029587
REPORT IS A COMBINATION OF REPORTS P986318 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-F1_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

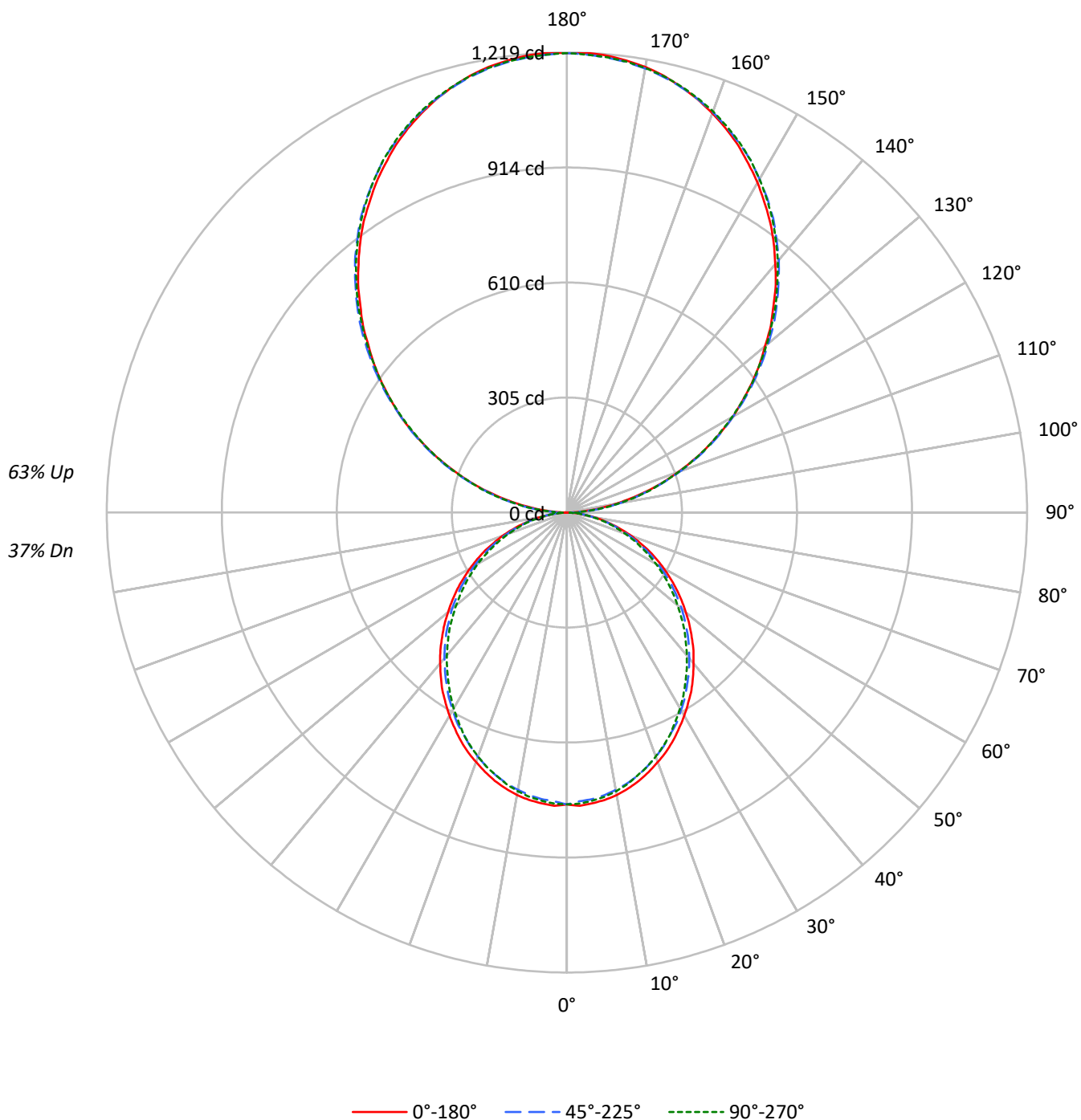
Lumens per Lamp: N/A
Luminaire Lumens: 5375.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1029587

CATALOG NUMBER: S122DIW-B485D970UB2750-4F0-XX-W2A-F1_3000K

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44			37
1	95	91	87	83	86	82	79	76	66	64	62	52	51	49	39	38	37			31
2	86	79	73	68	78	72	67	62	58	55	51	46	43	41	34	33	31			26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27			22
4	72	61	54	48	65	56	49	44	46	41	37	36	32	30	27	25	23			19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20			16
6	61	49	41	35	55	45	38	33	37	31	28	29	25	22	22	19	17			14
7	56	44	36	31	51	40	33	29	33	28	24	26	23	20	20	18	16			13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14			11
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13			10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11			9

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

TEST NUMBER: P1029587

CATALOG NUMBER: S122DIW-B485D970UB2750-4F0-XX-W2A-F1_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.4
10°-20°	204.8	3.8
20°-30°	301.0	5.6
30°-40°	349.6	6.5
40°-50°	349.2	6.5
50°-60°	304.5	5.7
60°-70°	225.1	4.2
70°-80°	127.3	2.4
80°-90°	37.1	0.7
90°-100°	75.3	1.4
100°-110°	239.4	4.5
110°-120°	409.6	7.6
120°-130°	538.7	10.0
130°-140°	604.7	11.3
140°-150°	593.0	11.0
150°-160°	497.4	9.3
160°-170°	329.9	6.1
170°-180°	115.3	2.1
0°-30°	578.7	10.8
0°-40°	928.3	17.3
0°-60°	1582.0	29.4
0°-90°	1971.5	36.7
90°-120°	724.3	13.5
90°-150°	2460.9	45.8
90°-180°	3404.0	63.3
0°-180°	5375.0	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	13	36	34	35	5
95°	53	64	66	66	64	60
105°	221	224	226	228	228	233
115°	411	417	415	414	411	407
125°	598	607	604	601	600	534
135°	774	785	787	786	783	598
145°	939	946	952	953	949	587
155°	1074	1077	1080	1085	1082	494
165°	1168	1167	1167	1174	1169	329
175°	1215	1212	1210	1217	1211	115
180°	1217	1217	1217	1217	1217	

TEST NUMBER: P1029587

CATALOG NUMBER: S122DIW-B485D970UB2750-4F0-XX-W2A-F1_3000K

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	13.4	36.0	33.9	34.9
92.5°	22.6	30.8	31.8	32.9	32.9
95°	53.4	63.7	65.7	65.7	63.7
97.5°	89.4	98.6	102.7	102.7	102.7
100°	130.5	138.7	141.8	141.8	140.7
102.5°	173.6	179.8	183.9	184.9	183.9
105°	220.9	224.0	226.0	228.1	228.1
107.5°	268.1	272.2	272.2	273.3	268.1
110°	313.3	319.5	319.5	319.5	316.4

TEST NUMBER: P1029587

CATALOG NUMBER: S122DIW-B485D970UB2750-4F0-XX-W2A-F1_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	362.6	368.8	367.8	364.7	362.6
115°	410.9	417.1	415.0	414.0	410.9
117.5°	459.2	467.4	462.3	459.2	456.1
120°	507.5	515.7	507.5	507.5	504.4
122.5°	551.7	561.9	556.8	553.7	551.7
125°	597.9	607.1	604.1	601.0	600.0
127.5°	643.1	654.4	650.3	646.2	643.1
130°	685.2	698.6	696.5	694.5	690.4
132.5°	732.5	742.7	743.8	738.6	735.6
135°	773.6	784.9	786.9	785.9	782.8
137.5°	818.8	828.0	830.1	829.0	824.9
140°	858.8	868.1	873.2	873.2	869.1
142.5°	899.9	909.2	912.3	913.3	909.2
145°	939.0	946.2	952.3	953.3	949.2
147.5°	973.9	983.1	987.3	989.3	985.2
150°	1009.9	1016.0	1020.1	1023.2	1020.1
152.5°	1041.7	1047.9	1053.0	1057.1	1053.0
155°	1073.5	1076.6	1079.7	1084.8	1081.8
157.5°	1101.3	1103.3	1105.4	1112.6	1107.4
160°	1125.9	1128.0	1129.0	1135.2	1131.1
162.5°	1148.5	1148.5	1149.6	1156.8	1151.6
165°	1168.1	1167.0	1167.0	1174.2	1169.1
167.5°	1185.5	1182.4	1182.4	1189.6	1184.5
170°	1198.9	1195.8	1194.8	1202.0	1195.8
172.5°	1208.1	1205.0	1204.0	1211.2	1205.0
175°	1215.3	1212.2	1210.2	1217.4	1211.2
177.5°	1219.4	1216.3	1214.3	1220.5	1214.3
180°	1217.4	1217.4	1217.4	1217.4	1217.4

(END OF REPORT)