

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: P1029585

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029585
REPORT IS A COMBINATION OF REPORTS P986316 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-D_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

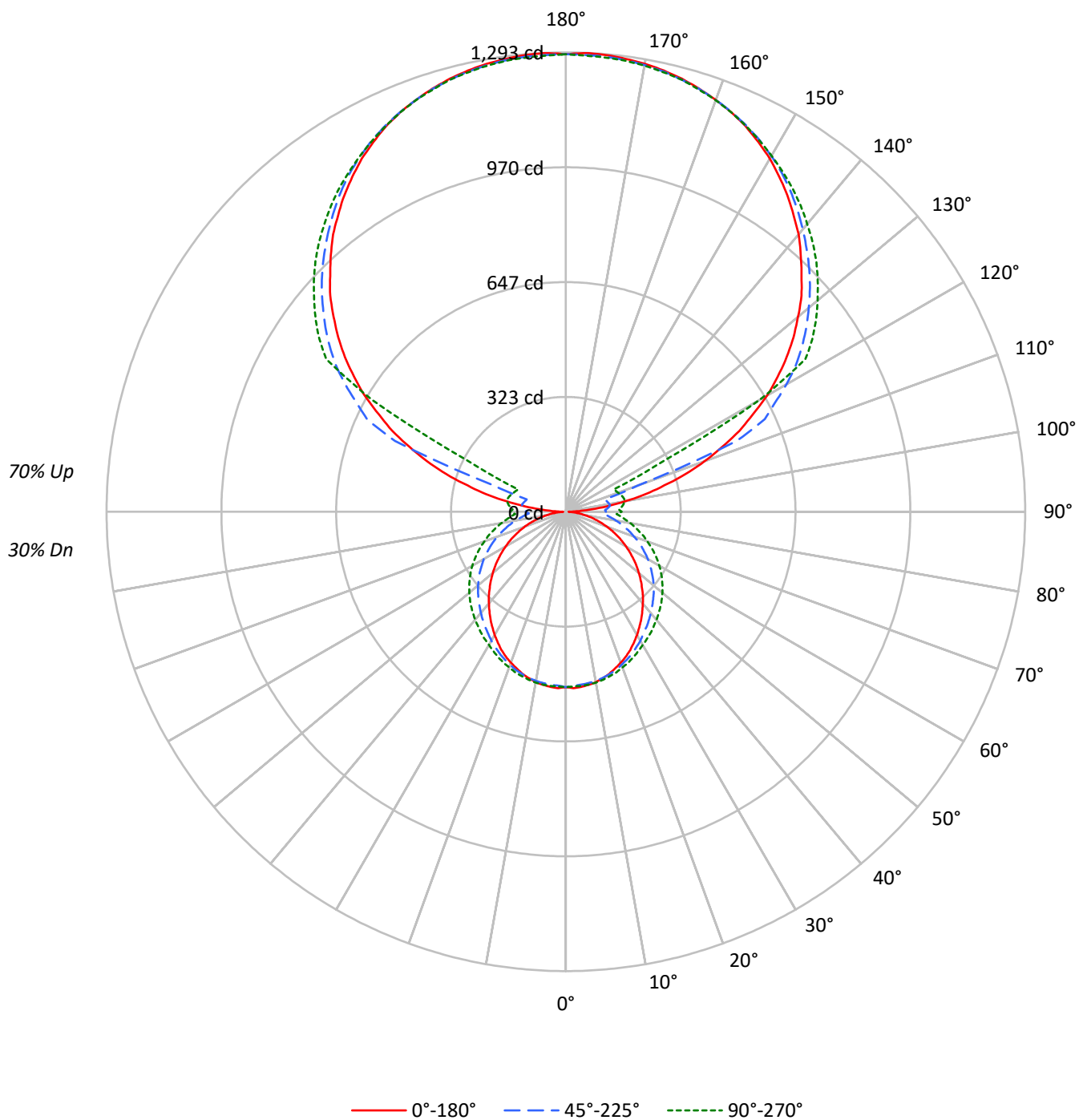
Lumens per Lamp: N/A
Luminaire Lumens: 5661.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1029585

CATALOG NUMBER: S122DIW-B485D970UB2750-4F0-XX-W2A-D_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1029585

CATALOG NUMBER: S122DIW-B485D970UB2750-4F0-XX-W2A-D_5000K

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37
1	92	88	84	80	82	79	75	72	62	59	57	46	44	43	32	31	30
2	84	76	70	64	75	68	63	58	53	50	46	40	37	35	27	26	24
3	76	67	59	53	68	60	53	48	47	42	39	35	32	29	24	22	20
4	69	59	51	45	62	53	46	41	41	36	33	31	28	25	21	19	17
5	63	52	44	38	56	47	40	34	37	32	28	28	24	21	19	17	15
6	58	46	38	33	52	42	35	30	33	28	24	25	21	18	17	15	13
7	54	42	34	28	48	38	31	26	30	25	21	22	19	16	16	13	11
8	50	38	30	25	44	34	27	23	27	22	18	20	17	14	14	12	10
9	46	34	27	22	41	31	24	20	25	20	16	19	15	13	13	11	9
10	43	31	24	19	38	28	22	18	23	18	15	17	14	11	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7812	7812	7812
5°	7847	7478	7437
10°	7795	7220	7114
15°	7684	6952	6784
20°	7545	6669	6470
25°	7408	6401	6186
30°	7216	6127	5904
35°	7023	5863	5698
40°	6819	5635	5491
45°	6622	5428	5312
50°	6414	5238	5135
55°	6193	5035	4955
60°	5926	4824	4767
65°	5645	4580	4548
70°	5327	4319	4315
75°	4923	4060	4092
80°	4279	3789	3864
85°	3630	3534	3666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6622 cd/sqm

TEST NUMBER: P1029585

CATALOG NUMBER: S122DIW-B485D970UB2750-4F0-XX-W2A-D_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	0.8
10°-20°	134.2	2.4
20°-30°	203.3	3.6
30°-40°	247.6	4.4
40°-50°	266.4	4.7
50°-60°	258.7	4.6
60°-70°	225.9	4.0
70°-80°	173.9	3.1
80°-90°	118.7	2.1
90°-100°	122.8	2.2
100°-110°	217.0	3.8
110°-120°	458.6	8.1
120°-130°	718.0	12.7
130°-140°	748.8	13.2
140°-150°	689.0	12.2
150°-160°	552.7	9.8
160°-170°	356.2	6.3
170°-180°	122.6	2.2
0°-30°	384.3	6.8
0°-40°	631.8	11.2
0°-60°	1156.9	20.4
0°-90°	1675.3	29.6
90°-120°	798.4	14.1
90°-150°	2954.2	52.2
90°-180°	3986.0	70.4
0°-180°	5661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	495	493	488	493	492	47
15°	472	474	474	480	479	133
25°	429	434	441	449	451	197
35°	370	382	396	411	416	231
45°	303	323	348	370	377	234
55°	232	258	295	321	330	208
65°	159	194	236	265	275	158
75°	88	128	174	204	214	93
85°	26	70	116	146	156	27
90°	8	60	113	146	157	8
95°	66	69	118	150	158	76
105°	287	336	118	154	165	307
115°	539	562	618	208	149	530
125°	759	771	812	838	847	677
135°	938	953	969	993	997	725
145°	1088	1087	1102	1113	1112	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	

TEST NUMBER: P1029585

CATALOG NUMBER: S122DIW-B485D970UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	493.5	493.5	493.5	493.5	493.5
2.5°	497.1	494.9	489.9	493.5	492.1
5°	494.9	492.8	488.5	492.8	492.1
7.5°	491.3	489.9	486.3	491.3	490.6
10°	487.1	485.6	483.5	489.2	488.5
12.5°	479.9	480.6	479.2	484.9	484.2
15°	472.0	473.5	473.5	479.9	479.2
17.5°	462.0	464.9	467.0	473.5	473.5
20°	452.0	455.6	458.4	466.3	466.3
22.5°	441.3	445.6	449.9	457.7	459.2
25°	429.1	434.1	440.6	449.2	451.3
27.5°	414.8	422.7	429.8	440.6	442.0
30°	400.5	409.8	419.1	430.6	432.7
32.5°	384.8	395.5	407.0	420.5	424.8
35°	369.8	381.9	395.5	411.2	416.3
37.5°	353.3	366.9	384.1	401.2	406.2
40°	336.9	352.6	371.9	390.5	396.9
42.5°	321.1	336.9	359.7	380.5	386.9
45°	303.2	322.6	347.6	369.8	376.9
47.5°	286.1	306.8	335.4	358.3	366.2
50°	268.2	290.4	322.6	346.9	354.7
52.5°	251.0	274.6	309.0	334.0	342.6
55°	232.4	258.2	295.4	321.1	330.4
57.5°	214.6	243.2	280.4	308.3	317.6
60°	195.3	226.0	266.8	294.0	304.0
62.5°	178.1	210.3	251.0	280.4	289.7
65°	158.8	193.8	236.0	265.3	274.6
67.5°	141.6	178.1	221.0	250.3	260.3
70°	123.0	160.2	204.5	235.3	243.9
72.5°	105.9	144.5	189.5	219.6	230.3
75°	88.0	128.0	173.8	204.5	213.8
77.5°	70.8	112.3	158.8	189.5	199.5
80°	53.6	97.3	143.8	173.8	183.8
82.5°	39.3	82.2	129.5	159.5	168.8
85°	25.7	70.1	115.9	145.9	155.9
87.5°	15.7	58.6	104.4	133.7	143.0
90°	8.1	59.8	113.0	146.3	156.8
92.5°	29.7	63.9	110.4	140.1	149.6
95°	66.3	69.1	118.5	150.4	158.1
97.5°	114.0	68.4	124.7	154.0	163.6
100°	170.0	68.8	124.6	158.6	168.3
102.5°	230.8	252.5	121.5	157.5	168.1
105°	286.9	335.6	118.3	153.6	165.2
107.5°	353.1	393.5	115.2	149.8	161.4
110°	415.7	449.6	215.3	145.0	156.6

TEST NUMBER: P1029585

CATALOG NUMBER: S122DIW-B485D970UB2750-4F0-XX-W2A-D_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	475.4	503.6	520.6	141.9	152.6
115°	538.8	562.4	617.9	207.9	148.6
117.5°	592.9	617.4	663.2	551.5	314.4
120°	654.4	671.3	716.7	747.9	630.0
122.5°	706.6	722.3	767.4	792.3	799.7
125°	759.1	771.2	811.8	837.6	846.9
127.5°	807.5	819.9	853.1	880.4	887.7
130°	853.2	867.4	892.6	920.1	924.9
132.5°	899.8	911.2	932.1	957.0	961.8
135°	938.2	953.1	968.7	993.0	996.9
137.5°	979.2	990.4	1003.3	1026.2	1028.4
140°	1019.3	1026.1	1037.7	1057.6	1057.2
142.5°	1052.8	1058.7	1070.8	1086.8	1085.8
145°	1087.6	1086.6	1102.5	1113.3	1112.2
147.5°	1118.3	1115.5	1131.4	1136.7	1135.2
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)