

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: P1029593

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029593
REPORT IS A COMBINATION OF REPORTS P986330 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_4000K
Description: Define 2 Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

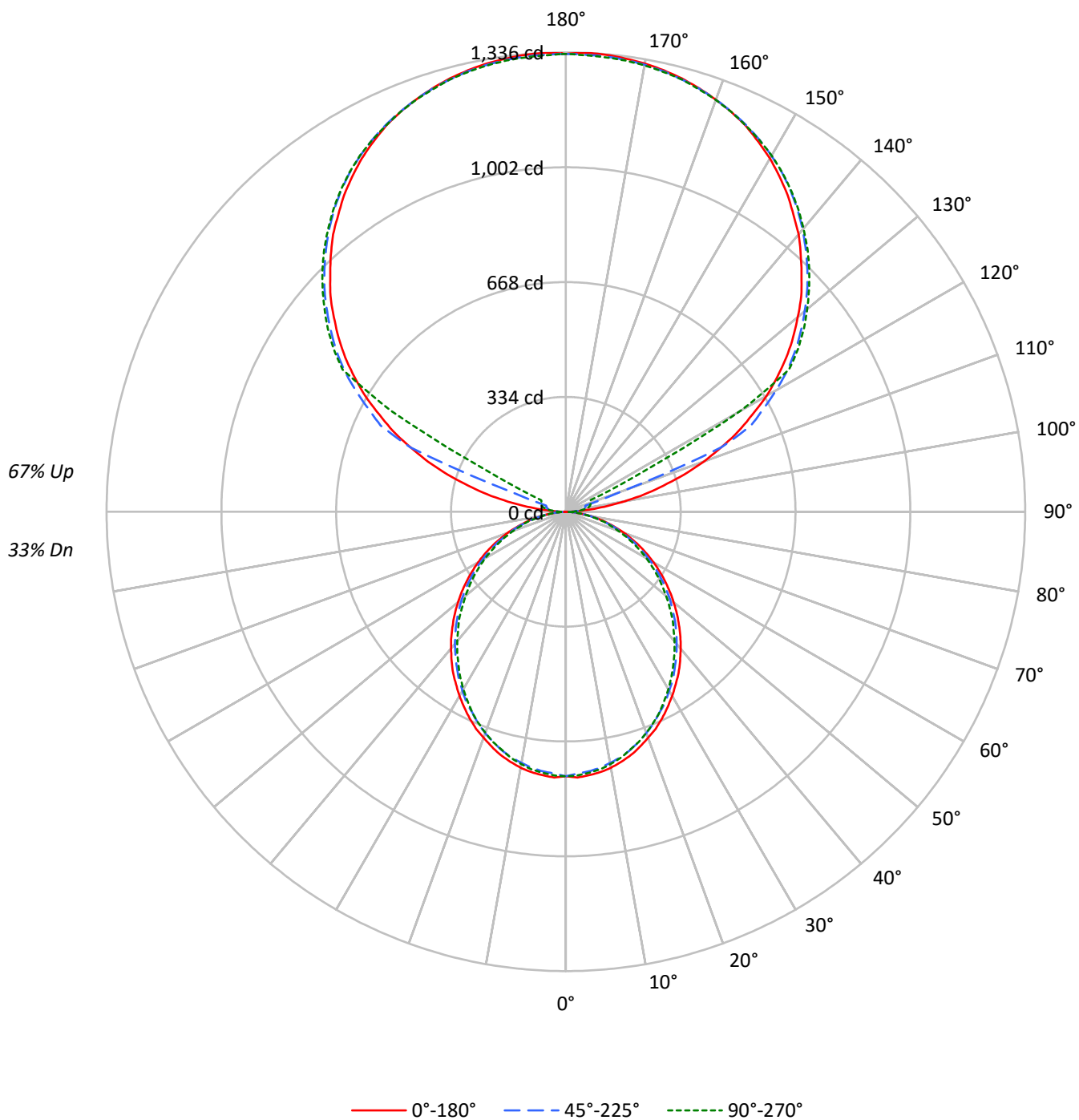
Lumens per Lamp: N/A
Luminaire Lumens: 5863.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	12176	12176	12176
5°	12196	11606	11524
10°	12097	11076	10857
15°	11919	10544	10156
20°	11680	9965	9493
25°	11441	9359	8829
30°	11141	8790	8133
35°	10857	8190	7451
40°	10508	7598	6805
45°	10160	7011	6172
50°	9781	6413	5514
55°	9382	5772	4892
60°	8933	5082	4245
65°	8439	4378	3564
70°	7817	3609	2878
75°	6953	2782	2222
80°	5908	1889	1430
85°	4280	878	609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10160 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.2
10°-20°	203.7	3.5
20°-30°	299.3	5.1
30°-40°	347.7	5.9
40°-50°	347.2	5.9
50°-60°	302.8	5.2
60°-70°	223.8	3.8
70°-80°	126.6	2.2
80°-90°	35.8	0.6
90°-100°	43.9	0.7
100°-110°	163.7	2.8
110°-120°	434.1	7.4
120°-130°	720.0	12.3
130°-140°	764.8	13.0
140°-150°	710.8	12.1
150°-160°	571.4	9.7
160°-170°	368.2	6.3
170°-180°	126.7	2.2
0°-30°	575.4	9.8
0°-40°	923.1	15.7
0°-60°	1573.1	26.8
0°-90°	1959.3	33.4
90°-120°	641.7	10.9
90°-150°	2837.2	48.4
90°-180°	3904.0	66.6
0°-180°	5863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	769	766	758	764	763	73
15°	732	728	718	721	717	206
25°	663	657	644	646	644	305
35°	572	564	552	548	544	357
45°	465	460	449	441	438	359
55°	352	348	339	330	326	315
65°	237	233	226	219	215	235
75°	124	123	119	115	116	133
85°	30	30	29	27	26	34
90°	1	12	19	24	26	5
95°	63	31	38	42	41	74
105°	293	322	59	69	73	313
115°	554	570	594	148	79	545
125°	783	796	814	821	824	699
135°	969	985	993	1003	1001	749
145°	1124	1123	1140	1147	1142	703
155°	1238	1229	1241	1247	1239	571
165°	1305	1299	1302	1308	1302	369
175°	1334	1328	1330	1336	1327	127
180°	1332	1332	1332	1332	1332	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.2	769.2	769.2	769.2	769.2
2.5°	773.7	770.0	761.8	769.2	767.7
5°	769.2	766.3	758.1	764.0	762.6
7.5°	764.0	759.6	751.5	757.4	755.9
10°	755.9	750.7	741.8	747.8	745.5
12.5°	744.8	740.4	731.5	735.2	733.7
15°	732.2	727.8	718.2	721.1	717.4
17.5°	716.7	712.3	702.6	706.3	702.6
20°	699.7	695.2	684.9	687.1	684.2
22.5°	682.7	676.0	666.4	666.4	664.9
25°	662.7	656.8	644.2	645.7	644.2
27.5°	640.5	635.3	625.7	623.5	619.8
30°	618.3	612.4	601.3	599.1	596.1
32.5°	594.7	590.2	578.4	574.0	571.0
35°	571.7	564.3	552.5	548.1	544.4
37.5°	545.8	539.2	527.4	522.2	518.5
40°	519.2	513.3	501.5	494.8	491.9
42.5°	493.3	487.4	475.6	468.2	463.7
45°	465.2	460.0	449.0	440.8	437.9
47.5°	437.9	432.7	420.8	412.7	408.3
50°	409.0	405.3	395.0	384.6	380.9
52.5°	380.9	375.7	366.1	358.0	352.8
55°	352.1	347.6	338.7	329.9	326.2
57.5°	323.2	319.5	309.9	301.0	298.1
60°	294.4	291.4	281.1	272.9	270.7
62.5°	266.3	261.1	253.7	246.3	243.3
65°	237.4	233.0	225.6	218.9	215.2
67.5°	207.8	204.1	197.5	192.3	189.3
70°	180.5	177.5	170.9	165.7	162.7
72.5°	152.4	149.4	145.7	140.5	138.3
75°	124.3	122.8	119.1	114.6	116.1
77.5°	99.1	96.2	94.7	92.5	90.2
80°	74.0	73.2	71.7	69.5	68.0
82.5°	50.3	50.3	49.6	46.6	46.6
85°	30.3	29.6	28.8	26.6	25.9
87.5°	13.3	11.8	10.4	8.1	7.4
90°	1.0	11.6	19.3	24.1	26.0
92.5°	24.1	20.2	23.1	25.1	26.0
95°	62.6	30.8	37.6	42.4	41.4
97.5°	112.7	33.7	49.1	52.0	53.0
100°	170.5	38.5	54.9	62.6	64.6
102.5°	234.1	232.2	56.8	67.4	70.3
105°	292.9	321.8	58.8	69.4	73.2
107.5°	361.3	385.4	60.7	71.3	75.2
110°	426.8	447.1	168.6	72.3	76.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	488.5	505.8	489.5	74.2	77.1
115°	554.0	570.4	594.5	148.4	79.0
117.5°	610.9	630.1	646.5	508.7	256.3
120°	674.4	688.9	706.2	717.8	587.7
122.5°	728.4	743.8	763.1	768.9	769.8
125°	783.3	795.9	814.2	820.9	823.8
127.5°	833.4	846.9	861.4	871.0	872.0
130°	880.6	896.1	906.7	917.3	916.3
132.5°	928.8	941.3	951.9	960.6	959.6
135°	969.3	984.7	993.4	1003.0	1001.1
137.5°	1011.7	1023.2	1032.9	1042.5	1039.6
140°	1053.1	1060.8	1071.4	1080.1	1075.3
142.5°	1087.8	1094.5	1107.1	1114.8	1110.0
145°	1124.4	1123.4	1139.8	1146.6	1141.7
147.5°	1156.2	1153.3	1169.7	1174.5	1170.7
150°	1187.0	1180.3	1195.7	1201.5	1196.7
152.5°	1213.0	1205.3	1219.8	1225.6	1218.8
155°	1238.1	1229.4	1241.0	1246.8	1239.1
157.5°	1258.3	1250.6	1259.3	1266.0	1258.3
160°	1275.7	1269.9	1275.7	1281.5	1274.7
162.5°	1291.1	1285.3	1290.1	1296.9	1288.2
165°	1304.6	1298.8	1301.7	1308.4	1301.7
167.5°	1315.2	1309.4	1312.3	1319.0	1310.4
170°	1323.8	1318.1	1320.0	1326.7	1318.1
172.5°	1329.6	1323.8	1325.8	1332.5	1323.8
175°	1334.4	1327.7	1329.6	1336.4	1326.7
177.5°	1336.4	1329.6	1330.6	1337.3	1328.7
180°	1331.6	1331.6	1331.6	1331.6	1331.6

(END OF REPORT)