

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: P1029589

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-F1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029589
REPORT IS A COMBINATION OF REPORTS P986320 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_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

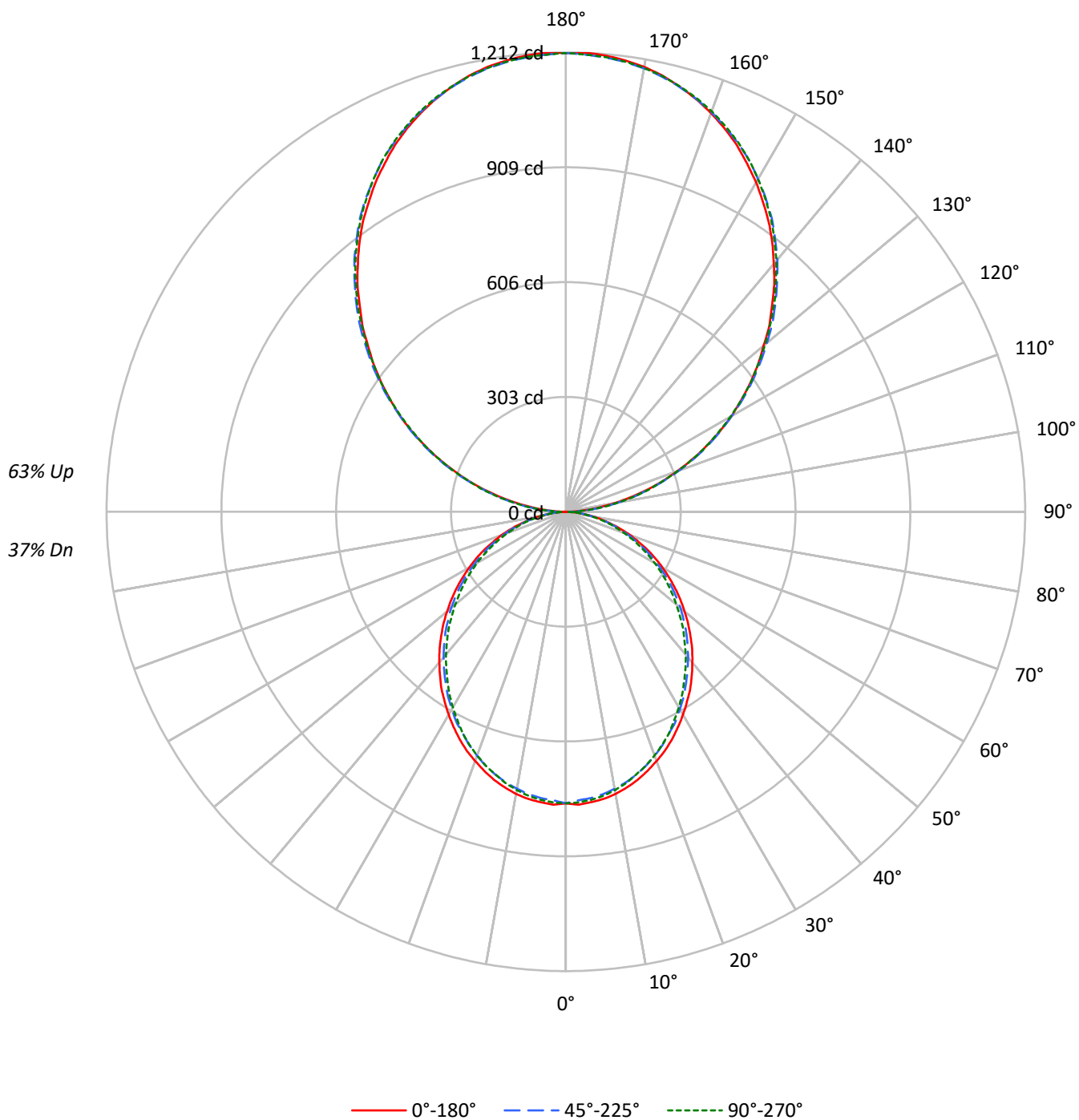
Lumens per Lamp: N/A
Luminaire Lumens: 5344.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	95	91	87	83	86	82	79	76	66	64	62	52	51	49	39	38	37
2	86	79	73	68	78	72	67	62	58	55	51	46	43	41	34	33	31
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27
4	72	61	54	48	65	56	49	44	46	41	37	36	32	30	27	25	23
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20
6	61	49	41	35	55	45	38	33	37	31	28	29	25	22	22	19	17
7	56	44	36	31	51	40	33	29	33	28	24	26	23	20	20	18	16
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	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	1.4
10°-20°	203.7	3.8
20°-30°	299.3	5.6
30°-40°	347.7	6.5
40°-50°	347.2	6.5
50°-60°	302.8	5.7
60°-70°	223.8	4.2
70°-80°	126.6	2.4
80°-90°	36.9	0.7
90°-100°	74.9	1.4
100°-110°	238.0	4.5
110°-120°	407.2	7.6
120°-130°	535.6	10.0
130°-140°	601.2	11.2
140°-150°	589.6	11.0
150°-160°	494.5	9.3
160°-170°	328.0	6.1
170°-180°	114.6	2.1
0°-30°	575.4	10.8
0°-40°	923.1	17.3
0°-60°	1573.1	29.4
0°-90°	1960.4	36.7
90°-120°	720.1	13.5
90°-150°	2446.4	45.8
90°-180°	3384.0	63.3
0°-180°	5344.0	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	13	36	34	35	5
95°	53	63	65	65	63	59
105°	220	223	225	227	227	232
115°	408	415	413	412	408	404
125°	594	604	600	598	596	531
135°	769	780	782	781	778	594
145°	934	941	947	948	944	583
155°	1067	1070	1073	1078	1075	491
165°	1161	1160	1160	1167	1162	328
175°	1208	1205	1203	1210	1204	115
180°	1210	1210	1210	1210	1210	

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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	13.3	35.7	33.7	34.7
92.5°	22.5	30.6	31.7	32.7	32.7
95°	53.1	63.3	65.4	65.4	63.3
97.5°	88.9	98.0	102.1	102.1	102.1
100°	129.7	137.9	140.9	140.9	139.9
102.5°	172.6	178.7	182.8	183.8	182.8
105°	219.6	222.6	224.7	226.7	226.7
107.5°	266.6	270.6	270.6	271.7	266.6
110°	311.5	317.6	317.6	317.6	314.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	360.5	366.6	365.6	362.6	360.5
115°	408.5	414.6	412.6	411.6	408.5
117.5°	456.5	464.7	459.6	456.5	453.5
120°	504.5	512.7	504.5	504.5	501.5
122.5°	548.4	558.6	553.5	550.5	548.4
125°	594.4	603.6	600.5	597.5	596.4
127.5°	639.3	650.6	646.5	642.4	639.3
130°	681.2	694.5	692.4	690.4	686.3
132.5°	728.2	738.4	739.4	734.3	731.2
135°	769.0	780.3	782.3	781.3	778.2
137.5°	814.0	823.2	825.2	824.2	820.1
140°	853.8	863.0	868.1	868.1	864.0
142.5°	894.6	903.8	906.9	907.9	903.8
145°	933.5	940.6	946.7	947.8	943.7
147.5°	968.2	977.4	981.5	983.5	979.4
150°	1003.9	1010.1	1014.1	1017.2	1014.1
152.5°	1035.6	1041.7	1046.8	1050.9	1046.8
155°	1067.2	1070.3	1073.4	1078.5	1075.4
157.5°	1094.8	1096.9	1098.9	1106.1	1100.9
160°	1119.3	1121.4	1122.4	1128.5	1124.4
162.5°	1141.8	1141.8	1142.8	1150.0	1144.9
165°	1161.2	1160.2	1160.2	1167.3	1162.2
167.5°	1178.6	1175.5	1175.5	1182.6	1177.5
170°	1191.8	1188.8	1187.8	1194.9	1188.8
172.5°	1201.0	1198.0	1196.9	1204.1	1198.0
175°	1208.2	1205.1	1203.1	1210.2	1204.1
177.5°	1212.3	1209.2	1207.2	1213.3	1207.2
180°	1210.2	1210.2	1210.2	1210.2	1210.2

(END OF REPORT)