

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: P1029580

Luminaire Tested: S122DIW-B485D970UB2750-4F0-XX-W2A-D1_4000K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029580
REPORT IS A COMBINATION OF REPORTS P986305 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-D1_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

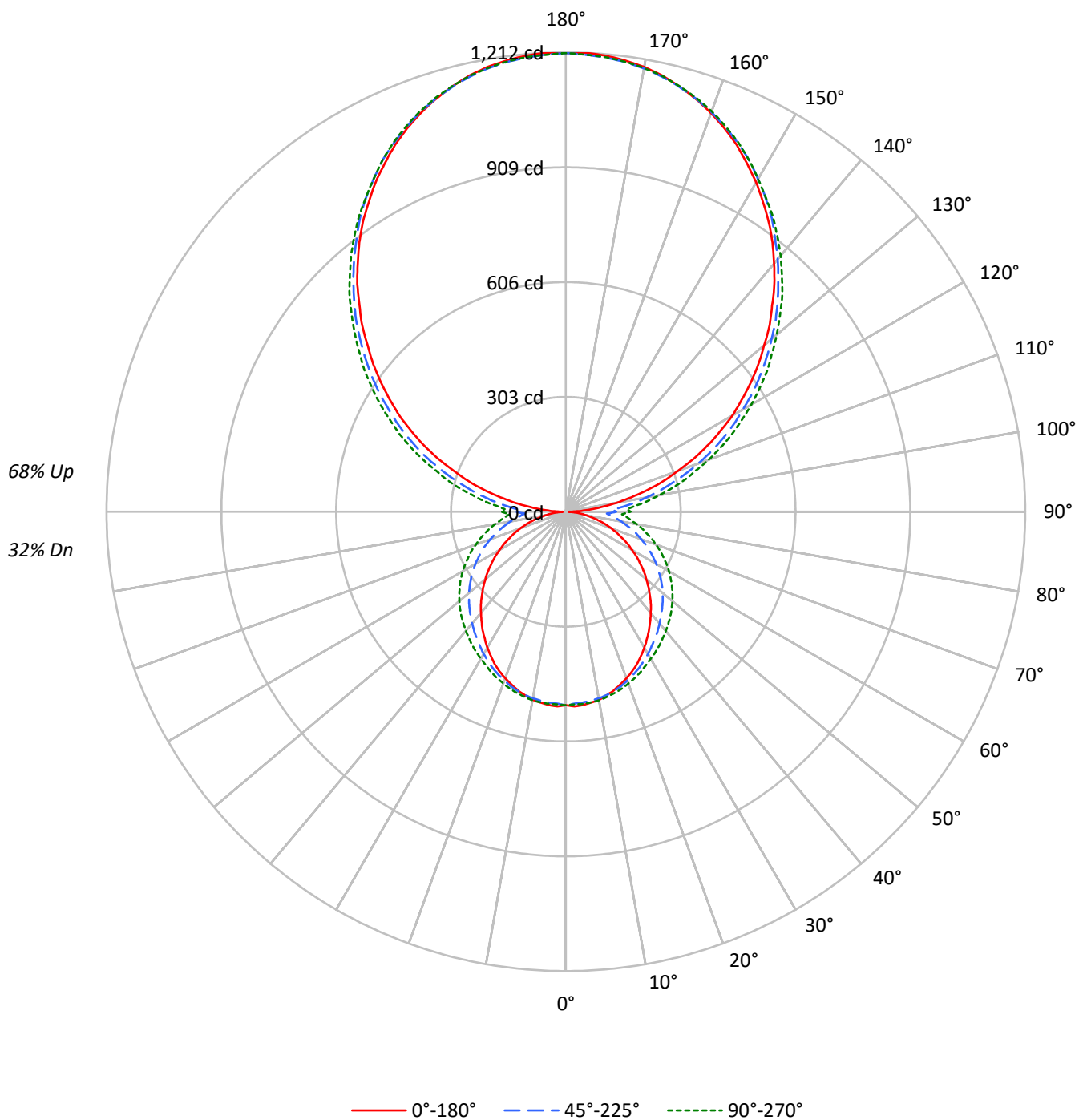
Lumens per Lamp: N/A
Luminaire Lumens: 5334.0 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	56	56	56	40	40	40
1	93	88	84	80	83	79	76	73	63	60	58	48	46	45	34	33	32
2	84	76	70	65	75	69	63	59	55	51	47	41	39	36	29	27	26
3	76	67	59	53	68	60	54	49	48	43	39	36	33	30	26	23	22
4	70	59	51	45	62	53	46	41	42	37	33	32	29	26	23	20	18
5	64	52	44	38	57	47	40	35	37	32	28	29	25	22	20	18	16
6	59	47	38	33	52	42	35	30	34	28	24	26	22	19	18	16	14
7	54	42	34	28	48	38	31	26	30	25	21	23	19	17	17	14	12
8	50	38	30	25	45	34	28	23	28	22	19	21	17	15	15	13	11
9	46	34	27	22	42	31	25	20	25	20	17	19	16	13	14	12	10
10	43	31	24	20	39	29	22	18	23	18	15	18	14	12	13	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8078	8078	8078
5°	8113	7733	7689
10°	8059	7464	7356
15°	7946	7188	7014
20°	7802	6896	6690
25°	7660	6618	6395
30°	7461	6336	6104
35°	7260	6063	5891
40°	7049	5826	5678
45°	6849	5612	5493
50°	6631	5415	5310
55°	6403	5205	5125
60°	6127	4986	4929
65°	5837	4736	4704
70°	5509	4467	4462
75°	5091	4198	4232
80°	4431	3916	3996
85°	3757	3653	3791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	0.9
10°-20°	138.7	2.6
20°-30°	210.2	3.9
30°-40°	256.0	4.8
40°-50°	275.4	5.2
50°-60°	267.5	5.0
60°-70°	233.6	4.4
70°-80°	179.8	3.4
80°-90°	123.9	2.3
90°-100°	157.9	3.0
100°-110°	298.6	5.6
110°-120°	447.3	8.4
120°-130°	557.9	10.5
130°-140°	610.5	11.4
140°-150°	591.1	11.1
150°-160°	494.5	9.3
160°-170°	328.0	6.1
170°-180°	114.6	2.1
0°-30°	397.3	7.4
0°-40°	653.3	12.2
0°-60°	1196.2	22.4
0°-90°	1733.4	32.5
90°-120°	903.9	16.9
90°-150°	2663.5	49.9
90°-180°	3601.0	67.5
0°-180°	5334.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	512	510	505	510	509	49
15°	488	490	490	496	496	137
25°	444	449	456	464	467	204
35°	382	395	409	425	430	239
45°	314	334	359	382	390	242
55°	240	267	305	332	342	215
65°	164	200	244	274	284	163
75°	91	132	180	212	221	96
85°	27	72	120	151	161	28
90°	8	64	133	161	171	9
95°	59	104	150	178	185	64
105°	223	248	288	316	324	236
115°	412	426	457	478	483	407
125°	596	605	626	643	648	533
135°	770	781	790	805	808	595
145°	934	941	947	952	952	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°	510.3	510.3	510.3	510.3	510.3
2.5°	514.0	511.7	506.6	510.3	508.8
5°	511.7	509.5	505.1	509.5	508.8
7.5°	508.0	506.6	502.9	508.0	507.3
10°	503.6	502.1	499.9	505.8	505.1
12.5°	496.2	497.0	495.5	501.4	500.7
15°	488.1	489.6	489.6	496.2	495.5
17.5°	477.7	480.7	482.9	489.6	489.6
20°	467.4	471.1	474.0	482.2	482.2
22.5°	456.3	460.7	465.2	473.3	474.8
25°	443.7	448.9	455.5	464.4	466.6
27.5°	428.9	437.1	444.4	455.5	457.0
30°	414.1	423.7	433.4	445.2	447.4
32.5°	397.9	409.0	420.8	434.8	439.3
35°	382.3	394.9	409.0	425.2	430.4
37.5°	365.3	379.4	397.1	414.9	420.0
40°	348.3	364.6	384.5	403.8	410.4
42.5°	332.0	348.3	372.0	393.4	400.1
45°	313.6	333.5	359.4	382.3	389.7
47.5°	295.8	317.3	346.8	370.5	378.6
50°	277.3	300.2	333.5	358.7	366.8
52.5°	259.6	284.0	319.5	345.4	354.2
55°	240.3	267.0	305.4	332.0	341.7
57.5°	221.9	251.4	289.9	318.7	328.3
60°	201.9	233.7	275.8	303.9	314.3
62.5°	184.1	217.4	259.6	289.9	299.5
65°	164.2	200.4	244.0	274.4	284.0
67.5°	146.4	184.1	228.5	258.8	269.2
70°	127.2	165.7	211.5	243.3	252.2
72.5°	109.4	149.4	196.0	227.0	238.1
75°	91.0	132.4	179.7	211.5	221.1
77.5°	73.2	116.1	164.2	196.0	206.3
80°	55.5	100.6	148.6	179.7	190.1
82.5°	40.7	85.0	133.9	164.9	174.5
85°	26.6	72.5	119.8	150.9	161.2
87.5°	16.3	60.6	108.0	138.3	147.9
90°	8.4	63.6	133.3	160.9	170.8
92.5°	29.2	76.5	122.7	152.5	161.4
95°	59.0	104.0	150.4	178.5	185.3
97.5°	94.1	135.0	182.0	209.3	218.2
100°	134.9	170.4	214.9	242.2	249.3
102.5°	177.0	207.5	251.6	279.2	286.3
105°	223.3	247.7	288.3	316.2	324.3
107.5°	270.3	292.0	329.0	355.3	358.3
110°	314.5	335.3	371.6	395.2	400.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	363.5	381.4	414.4	435.1	441.1
115°	411.5	425.7	457.0	478.2	483.2
117.5°	458.7	472.8	498.8	517.9	522.3
120°	506.7	517.9	539.3	560.0	565.1
122.5°	550.6	561.6	583.8	600.8	605.3
125°	595.9	605.1	625.6	642.6	648.2
127.5°	640.8	651.3	667.2	681.6	685.2
130°	682.7	695.2	708.7	724.4	726.2
132.5°	729.7	739.1	751.2	763.1	766.0
135°	769.7	781.0	790.4	805.0	807.8
137.5°	814.7	823.9	829.6	842.7	843.8
140°	854.5	863.0	869.6	881.4	881.7
142.5°	895.3	903.8	906.9	916.8	916.4
145°	933.5	940.6	946.7	952.2	951.8
147.5°	968.2	977.4	981.5	984.2	982.4
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)