

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: P987704

Luminaire Tested: S122DW-B865DB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P987704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DW-B865DB2750-4F0-XX-W2A-F_4000K
Description: Define 2 Direct Wall Mount with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

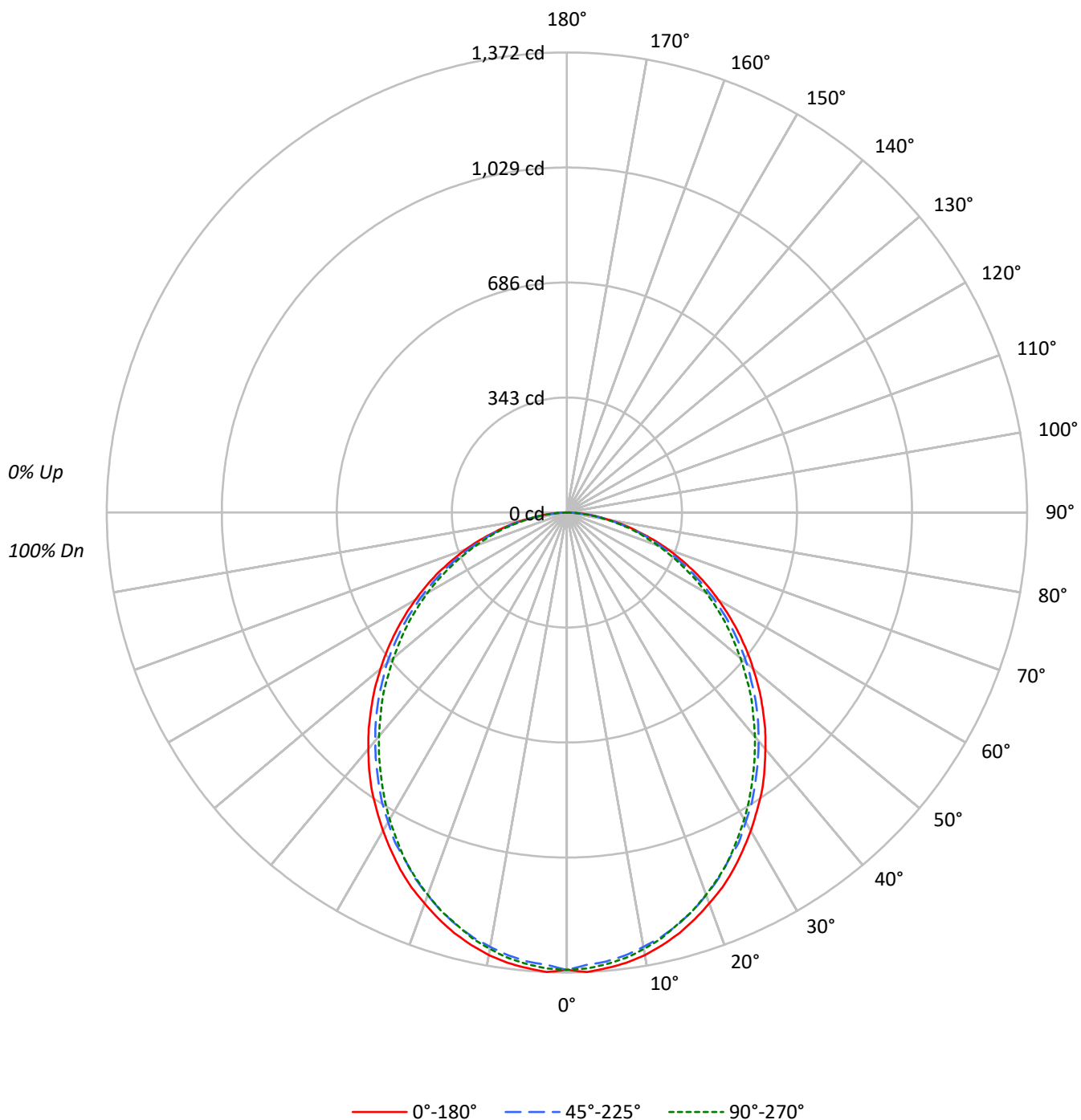
Lumens per Lamp: N/A
Luminaire Lumens: 3470.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 46.8
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90
2	99	91	85	79	97	89	83	78	86	81	76		83	78	74		80
3	91	80	72	66	88	79	71	65	76	69	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	49	75	63	55	48	61	53	48		59	52	47		57
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21590	21590	21590
5°	21672	21359	21485
10°	21543	21143	21248
15°	21276	20868	20847
20°	20898	20457	20435
25°	20524	19951	19951
30°	20040	19488	19320
35°	19591	18932	18652
40°	19023	18374	18021
45°	18466	17821	17380
50°	17859	17246	16632
55°	17229	16575	15960
60°	16526	15779	15196
65°	15769	14982	14293
70°	14810	14019	13352
75°	13473	12911	12593
80°	11951	11595	11003
85°	9771	9281	8336

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18466 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	3.7
10°-20°	361.2	10.4
20°-30°	530.8	15.3
30°-40°	616.5	17.8
40°-50°	615.7	17.7
50°-60°	536.9	15.5
60°-70°	396.9	11.4
70°-80°	224.5	6.5
80°-90°	59.3	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1020.3	29.4
0°-40°	1636.8	47.2
0°-60°	2789.4	80.4
0°-90°	3470.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3470.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1364	1359	1344	1355	1352	129
15°	1298	1290	1273	1279	1272	366
25°	1175	1165	1142	1145	1142	541
35°	1014	1001	980	972	965	633
45°	825	816	796	782	776	637
55°	624	616	601	585	578	558
65°	421	413	400	388	382	416
75°	220	218	211	203	206	235
85°	54	52	51	47	46	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.9	1363.9	1363.9	1363.9	1363.9
2.5°	1371.8	1365.2	1350.8	1363.9	1361.3
5°	1363.9	1358.7	1344.2	1354.7	1352.1
7.5°	1354.7	1346.9	1332.4	1342.9	1340.3
10°	1340.3	1331.1	1315.4	1325.9	1321.9
12.5°	1320.6	1312.8	1297.0	1303.6	1301.0
15°	1298.3	1290.5	1273.4	1278.7	1272.1
17.5°	1270.8	1262.9	1245.9	1252.4	1245.9
20°	1240.6	1232.8	1214.4	1218.3	1213.1
22.5°	1210.5	1198.7	1181.6	1181.6	1179.0
25°	1175.1	1164.6	1142.3	1144.9	1142.3
27.5°	1135.7	1126.5	1109.5	1105.6	1099.0
30°	1096.4	1085.9	1066.2	1062.3	1057.0
32.5°	1054.4	1046.5	1025.6	1017.7	1012.4
35°	1013.8	1000.6	979.7	971.8	965.2
37.5°	967.9	956.0	935.1	925.9	919.3
40°	920.6	910.1	889.2	877.4	872.1
42.5°	874.7	864.2	843.3	830.1	822.3
45°	824.9	815.7	796.1	781.6	776.4
47.5°	776.4	767.2	746.2	731.8	723.9
50°	725.2	718.7	700.3	682.0	675.4
52.5°	675.4	666.2	649.2	634.7	625.6
55°	624.3	616.4	600.6	584.9	578.3
57.5°	573.1	566.5	549.5	533.8	528.5
60°	522.0	516.7	498.4	483.9	480.0
62.5°	472.1	462.9	449.8	436.7	431.5
65°	421.0	413.1	400.0	388.2	381.6
67.5°	368.5	362.0	350.2	341.0	335.7
70°	320.0	314.7	302.9	293.8	288.5
72.5°	270.2	264.9	258.4	249.2	245.2
75°	220.3	217.7	211.1	203.3	205.9
77.5°	175.7	170.5	167.9	163.9	160.0
80°	131.1	129.8	127.2	123.3	120.7
82.5°	89.2	89.2	87.9	82.6	82.6
85°	53.8	52.5	51.1	47.2	45.9
87.5°	23.6	21.0	18.4	14.4	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)