

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: P989008

Luminaire Tested: S122RDR-B865DB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P989008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDR-B865DB2750-4F0-XX-W2A-F_3500K
Description: Define 2 Regressed Direct Recessed with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

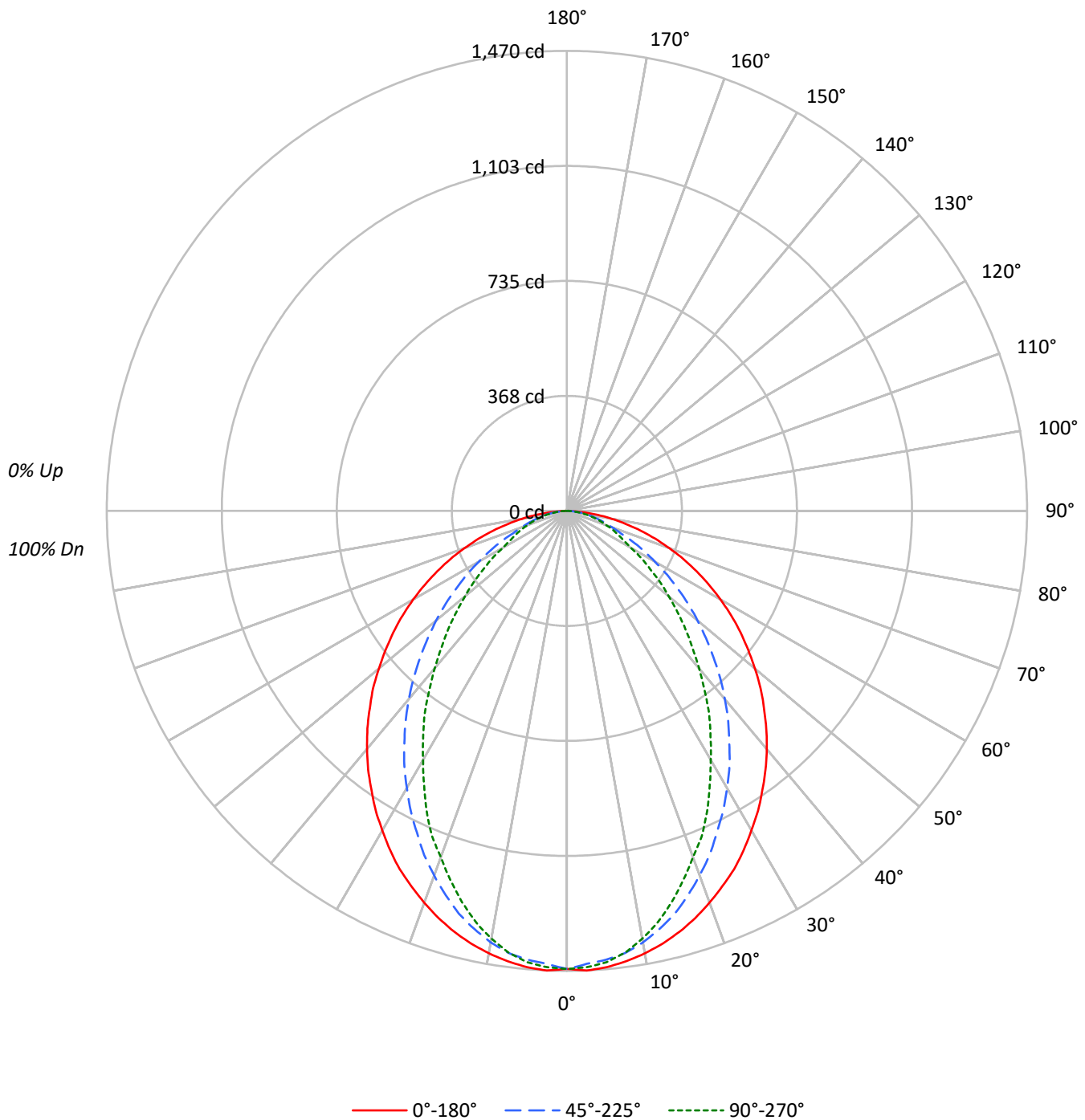
Lumens per Lamp: N/A
Luminaire Lumens: 3010.0 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

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				20				20				20
RC	80				70				50				30				10				0				0				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0				0				0
RCR																													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100											100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86											86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74											74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64											64
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57	55											55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49											49
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43											43
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41	39											39
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37	35											35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34	32											32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29											29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23168	23168	23168
5°	23256	22876	23004
10°	23077	22503	22312
15°	22812	21835	21206
20°	22445	20883	19835
25°	22070	19803	18507
30°	21546	18689	16801
35°	21038	17480	15305
40°	20527	16229	13574
45°	19926	14824	12008
50°	19309	13406	10471
55°	18678	11881	8991
60°	17947	10273	7465
65°	17113	8633	6798
70°	16120	7109	6253
75°	14905	6483	5835
80°	13163	5798	5314
85°	10352	4577	4577

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19926 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	4.6
10°-20°	376.6	12.5
20°-30°	528.7	17.6
30°-40°	576.3	19.1
40°-50°	529.7	17.6
50°-60°	416.0	13.8
60°-70°	270.7	9.0
70°-80°	139.4	4.6
80°-90°	35.6	1.2
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°	1042.4	34.6
0°-40°	1618.7	53.8
0°-60°	2564.3	85.2
0°-90°	3010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3010.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1464	1457	1440	1452	1448	139
15°	1392	1378	1332	1307	1294	392
25°	1264	1221	1134	1080	1060	581
35°	1089	1021	905	821	792	681
45°	890	801	662	568	536	687
55°	677	574	430	351	326	605
65°	457	350	230	185	182	453
75°	244	151	106	97	95	258
85°	57	29	25	25	25	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.6	1463.6	1463.6	1463.6	1463.6
2.5°	1470.2	1463.6	1449.0	1462.2	1459.6
5°	1463.6	1456.9	1439.7	1451.6	1447.7
7.5°	1451.6	1443.7	1425.2	1430.4	1423.8
10°	1435.7	1426.5	1400.0	1396.0	1388.1
12.5°	1415.9	1404.0	1368.2	1360.3	1345.7
15°	1392.0	1377.5	1332.4	1307.3	1294.0
17.5°	1364.2	1343.0	1287.4	1258.3	1237.1
20°	1332.4	1305.9	1239.7	1206.6	1177.5
22.5°	1298.0	1267.5	1190.7	1145.7	1125.8
25°	1263.6	1221.2	1133.8	1079.5	1059.6
27.5°	1222.5	1177.5	1080.8	1018.5	988.1
30°	1178.8	1128.5	1022.5	955.0	919.2
32.5°	1136.4	1075.5	966.9	887.4	854.3
35°	1088.7	1021.2	904.6	821.2	792.0
37.5°	1042.4	969.5	846.3	755.0	721.8
40°	993.4	913.9	785.4	691.4	656.9
42.5°	943.0	858.3	724.5	626.5	593.4
45°	890.1	801.3	662.2	568.2	536.4
47.5°	839.7	745.7	602.6	508.6	479.5
50°	784.1	690.1	544.4	453.0	425.2
52.5°	729.8	630.5	488.7	401.3	376.2
55°	676.8	573.5	430.5	351.0	325.8
57.5°	622.5	516.6	378.8	304.6	283.4
60°	566.9	460.9	324.5	257.0	235.8
62.5°	512.6	406.6	278.1	214.6	204.0
65°	456.9	349.7	230.5	185.4	181.5
67.5°	404.0	296.7	185.4	162.9	158.9
70°	348.3	245.0	153.6	140.4	135.1
72.5°	295.4	197.3	128.5	117.9	115.2
75°	243.7	151.0	106.0	96.7	95.4
77.5°	192.1	107.3	83.4	78.1	75.5
80°	144.4	76.8	63.6	58.3	58.3
82.5°	100.7	51.7	43.7	41.1	41.1
85°	57.0	29.1	25.2	25.2	25.2
87.5°	21.2	10.6	10.6	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)