

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: P1037180

Luminaire Tested: S122RDS-B485DB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1037180
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: S122RDS-B485DB2750-4F0-XX-W2A-F_4000K
Description: Define 2 Regressed Direct Surface with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

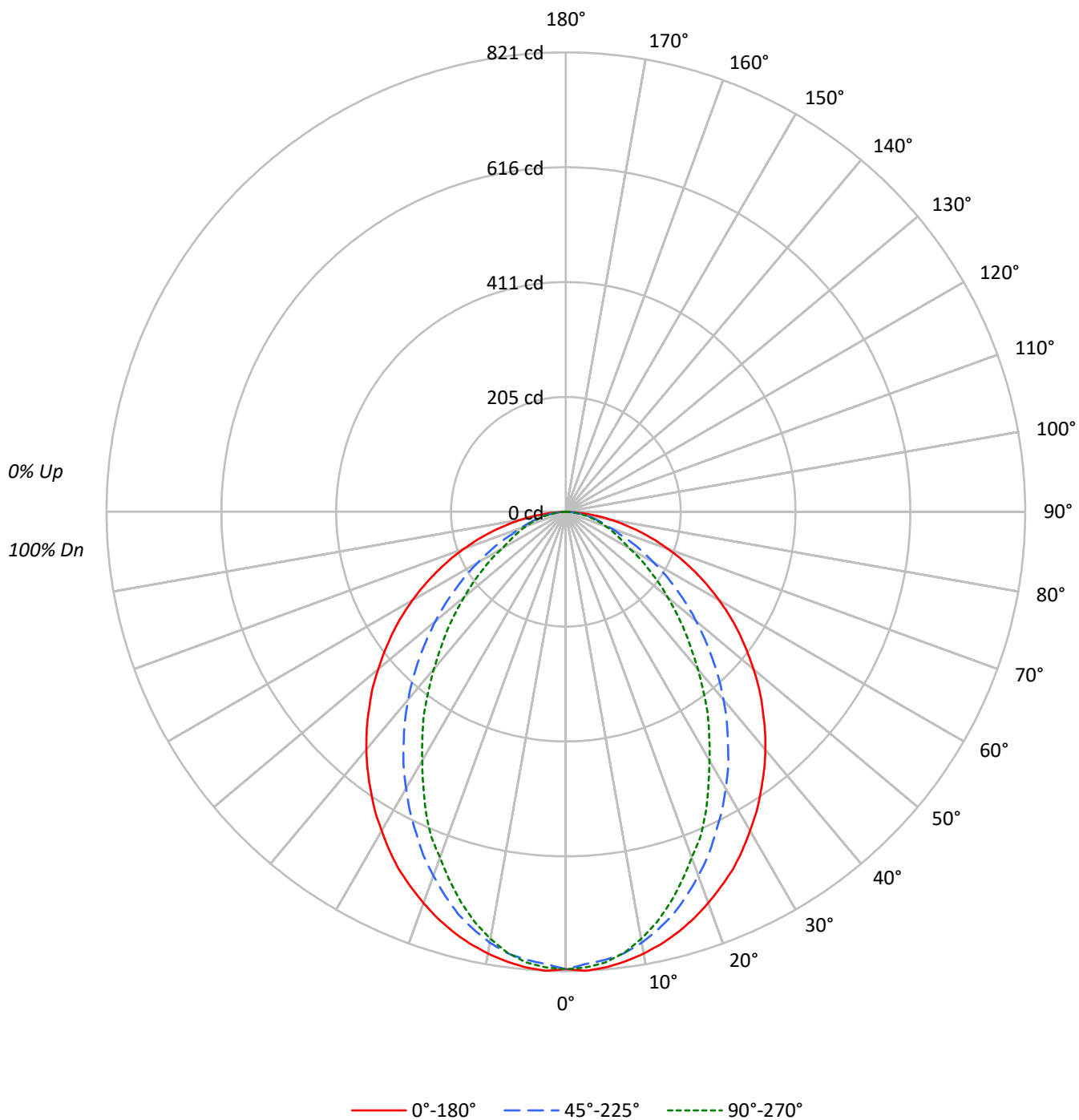
Lumens per Lamp: N/A
Luminaire Lumens: 1681.0 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	87	82	98	92	86	81	88	83	79		85	81	78		82
3	93	83	76	70	90	82	75	69	79	73	68		76	71	67		74
4	86	75	66	60	83	73	66	60	71	64	59		69	63	58		66
5	79	67	59	53	77	66	58	52	64	57	52		62	56	51		60
6	74	61	53	47	72	60	52	46	58	51	46		57	50	46		55
7	68	56	47	42	67	55	47	42	53	46	41		52	46	41		51
8	64	51	43	38	62	51	43	37	49	42	37		48	42	37		47
9	60	47	39	34	59	47	39	34	46	39	34		44	38	34		44
10	56	44	36	31	55	43	36	31	42	36	31		41	35	31		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12939	12939	12939
5°	12988	12775	12847
10°	12888	12568	12460
15°	12740	12194	11843
20°	12534	11662	11077
25°	12326	11059	10336
30°	12032	10437	9382
35°	11749	9762	8547
40°	11464	9063	7581
45°	11128	8278	6707
50°	10784	7486	5846
55°	10432	6634	5023
60°	10023	5737	4169
65°	9559	4820	3794
70°	9002	3971	3490
75°	8324	3621	3260
80°	7347	3236	2963
85°	5776	2561	2561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11128 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	4.6
10°-20°	210.3	12.5
20°-30°	295.2	17.6
30°-40°	321.8	19.1
40°-50°	295.8	17.6
50°-60°	232.3	13.8
60°-70°	151.2	9.0
70°-80°	77.8	4.6
80°-90°	19.9	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°	582.1	34.6
0°-40°	904.0	53.8
0°-60°	1432.1	85.2
0°-90°	1681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1681.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	817	814	804	811	808	78
15°	777	769	744	730	723	219
25°	706	682	633	603	592	325
35°	608	570	505	459	442	381
45°	497	448	370	317	300	384
55°	378	320	240	196	182	338
65°	255	195	129	104	101	253
75°	136	84	59	54	53	144
85°	32	16	14	14	14	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.4	817.4	817.4	817.4	817.4
2.5°	821.1	817.4	809.2	816.6	815.1
5°	817.4	813.7	804.0	810.7	808.5
7.5°	810.7	806.3	795.9	798.9	795.2
10°	801.8	796.6	781.9	779.6	775.2
12.5°	790.7	784.1	764.1	759.7	751.5
15°	777.4	769.3	744.1	730.1	722.7
17.5°	761.9	750.0	719.0	702.7	690.9
20°	744.1	729.3	692.3	673.9	657.6
22.5°	724.9	707.9	665.0	639.8	628.7
25°	705.7	682.0	633.2	602.8	591.8
27.5°	682.7	657.6	603.6	568.8	551.8
30°	658.3	630.2	571.0	533.3	513.3
32.5°	634.7	600.6	540.0	495.6	477.1
35°	608.0	570.3	505.2	458.6	442.3
37.5°	582.1	541.5	472.7	421.6	403.1
40°	554.8	510.4	438.6	386.1	366.9
42.5°	526.7	479.3	404.6	349.9	331.4
45°	497.1	447.5	369.8	317.3	299.6
47.5°	469.0	416.4	336.6	284.0	267.8
50°	437.9	385.4	304.0	253.0	237.4
52.5°	407.6	352.1	272.9	224.1	210.1
55°	378.0	320.3	240.4	196.0	182.0
57.5°	347.7	288.5	211.6	170.1	158.3
60°	316.6	257.4	181.2	143.5	131.7
62.5°	286.3	227.1	155.3	119.8	113.9
65°	255.2	195.3	128.7	103.6	101.3
67.5°	225.6	165.7	103.6	91.0	88.8
70°	194.5	136.8	85.8	78.4	75.4
72.5°	165.0	110.2	71.7	65.8	64.4
75°	136.1	84.3	59.2	54.0	53.3
77.5°	107.3	59.9	46.6	43.6	42.2
80°	80.6	42.9	35.5	32.5	32.5
82.5°	56.2	28.8	24.4	22.9	22.9
85°	31.8	16.3	14.1	14.1	14.1
87.5°	11.8	5.9	5.9	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)