

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: P995779

Luminaire Tested: S122DRP-B290DB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P995779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DRP-B290DB2750-4F0-XX-W2A-D_5000K
Description: Define 2 Direct Perimeter with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

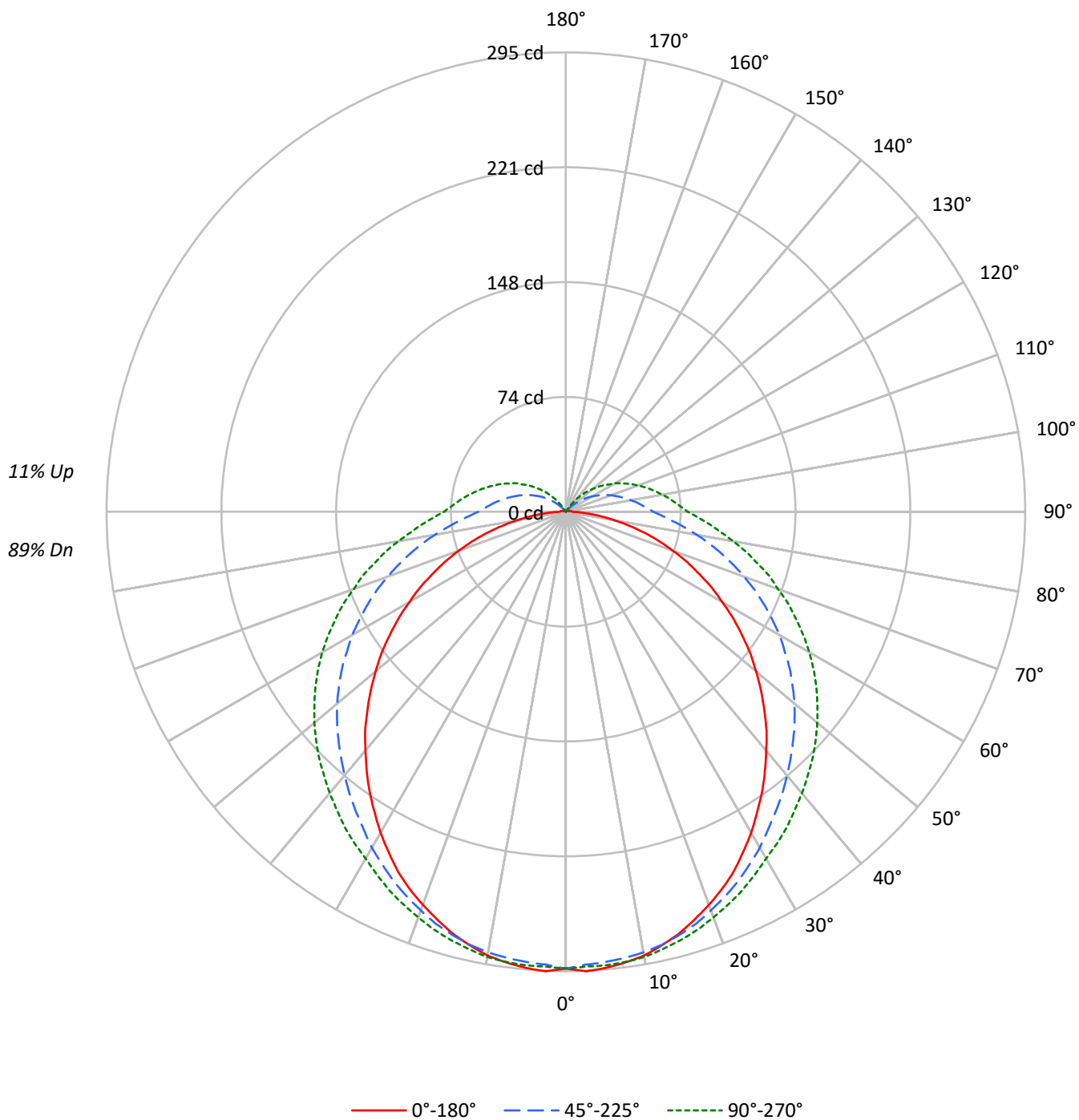
Lumens per Lamp: N/A
Luminaire Lumens: 1119.1 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 13
Input Voltage (V):
Input Current (A_{in}): 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
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89			
1	104	98	93	88	100	95	90	86	88	85	81	82	79	77	77	75	72	69			
2	94	84	77	70	90	81	74	68	76	70	65	71	66	62	66	62	59	56			
3	85	73	64	57	81	71	63	56	66	59	54	62	56	51	58	53	49	46			
4	77	64	55	48	74	62	54	47	58	51	45	55	48	43	51	46	42	39			
5	71	57	48	41	68	56	47	40	52	44	39	49	42	37	46	40	36	33			
6	65	51	42	35	63	50	41	35	47	39	34	44	37	32	42	36	31	29			
7	60	46	37	31	58	45	37	31	43	35	30	40	34	29	38	32	28	25			
8	56	42	34	28	54	41	33	27	39	32	26	37	30	25	35	29	25	23			
9	52	39	30	25	50	38	30	24	36	29	24	34	27	23	32	26	22	20			
10	49	36	28	22	47	35	27	22	33	26	21	31	25	21	30	24	20	18			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4643	4643	4643
5°	4673	4613	4646
10°	4652	4618	4666
15°	4597	4611	4667
20°	4525	4589	4668
25°	4454	4573	4684
30°	4350	4553	4699
35°	4245	4541	4781
40°	4137	4567	4875
45°	4034	4625	5014
50°	3925	4721	5191
55°	3811	4843	5420
60°	3672	5018	5718
65°	3536	5255	6113
70°	3383	5628	6706
75°	3199	6318	7773
80°	2908	7785	9954
85°	2779	12514	16836

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 30846 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	2.5
10°-20°	79.7	7.1
20°-30°	120.8	10.8
30°-40°	147.1	13.1
40°-50°	158.3	14.1
50°-60°	153.7	13.7
60°-70°	134.3	12.0
70°-80°	103.3	9.2
80°-90°	69.2	6.2
90°-100°	47.8	4.3
100°-110°	34.9	3.1
110°-120°	23.0	2.1
120°-130°	12.8	1.1
130°-140°	5.4	0.5
140°-150°	0.9	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	228.3	20.4
0°-40°	375.5	33.6
0°-60°	687.5	61.4
0°-90°	994.3	88.8
90°-120°	105.6	9.4
90°-150°	124.8	11.2
90°-180°	125.0	11.2
0°-180°	1119.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	293	293	293	293	293	
5°	294	293	290	293	292	28
15°	280	281	281	285	285	79
25°	255	258	262	267	268	117
35°	220	227	235	244	247	137
45°	180	192	207	220	224	139
55°	138	153	176	191	196	124
65°	94	115	140	158	163	94
75°	52	76	103	122	127	55
85°	15	42	69	87	93	16
90°	4	29	56	73	78	3
95°	3	23	49	65	70	3
105°	2	14	37	51	56	2
115°	2	6	26	38	43	2
125°	1	1	14	26	30	1
135°	0	0	5	14	17	0
145°	0	0	0	3	5	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	293.3	293.3	293.3	293.3	293.3
2.5°	295.4	294.1	291.1	293.3	292.4
5°	294.1	292.8	290.3	292.8	292.4
7.5°	292.0	291.1	289.0	292.0	291.6
10°	289.4	288.6	287.3	290.7	290.3
12.5°	285.2	285.6	284.8	288.2	287.7
15°	280.5	281.4	281.4	285.2	284.8
17.5°	274.6	276.3	277.5	281.4	281.4
20°	268.6	270.7	272.4	277.1	277.1
22.5°	262.2	264.8	267.3	272.0	272.9
25°	255.0	258.0	261.8	266.9	268.2
27.5°	246.5	251.2	255.4	261.8	262.7
30°	238.0	243.5	249.1	255.9	257.1
32.5°	228.7	235.0	241.8	249.9	252.5
35°	219.7	227.0	235.0	244.4	247.4
37.5°	210.0	218.0	228.2	238.4	241.4
40°	200.2	209.5	221.0	232.1	235.9
42.5°	190.8	200.2	213.8	226.1	229.9
45°	180.2	191.7	206.6	219.7	224.0
47.5°	170.0	182.3	199.3	212.9	217.6
50°	159.4	172.6	191.7	206.1	210.8
52.5°	149.2	163.2	183.6	198.5	203.6
55°	138.1	153.4	175.5	190.8	196.4
57.5°	127.5	144.5	166.6	183.2	188.7
60°	116.0	134.3	158.5	174.7	180.6
62.5°	105.8	125.0	149.2	166.6	172.1
65°	94.4	115.2	140.3	157.7	163.2
67.5°	84.2	105.8	131.3	148.8	154.7
70°	73.1	95.2	121.6	139.8	144.9
72.5°	62.9	85.9	112.6	130.5	136.9
75°	52.3	76.1	103.3	121.6	127.1
77.5°	42.1	66.7	94.4	112.6	118.6
80°	31.9	57.8	85.4	103.3	109.2
82.5°	23.4	48.9	76.9	94.8	100.3
85°	15.3	41.7	68.9	86.7	92.7
87.5°	9.4	34.9	62.1	79.5	85.0
90°	4.3	28.9	56.1	73.1	78.2
92.5°	3.8	26.4	52.3	68.9	74.0
95°	3.4	23.4	48.9	65.0	70.1
97.5°	3.0	21.3	45.9	61.6	66.7
100°	3.0	18.7	42.5	58.2	62.9
102.5°	2.6	16.6	39.5	54.8	59.5
105°	2.1	14.5	36.6	51.4	56.1
107.5°	2.1	12.3	33.6	48.0	52.7
110°	1.7	10.2	31.0	44.6	49.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	8.5	28.1	41.7	46.3
115°	1.7	6.4	25.5	38.3	42.9
117.5°	1.3	4.7	22.5	35.3	39.5
120°	1.3	3.0	20.0	31.9	36.6
122.5°	1.3	1.7	17.4	28.9	32.7
125°	0.9	0.9	14.5	25.9	29.8
127.5°	0.9	0.4	11.9	22.5	26.4
130°	0.9	0.4	9.4	19.6	23.0
132.5°	0.9	0.4	6.8	16.6	20.0
135°	0.4	0.4	4.7	13.6	17.0
137.5°	0.4	0.4	2.6	10.6	13.6
140°	0.4	0.0	0.9	7.7	10.2
142.5°	0.4	0.0	0.0	5.1	7.2
145°	0.0	0.0	0.0	2.6	4.7
147.5°	0.0	0.0	0.0	0.4	1.7
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)