

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: P1008920

Luminaire Tested: S122DIP-B290D725UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008920
REPORT IS A COMBINATION OF REPORTS P984035 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D725UB35-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

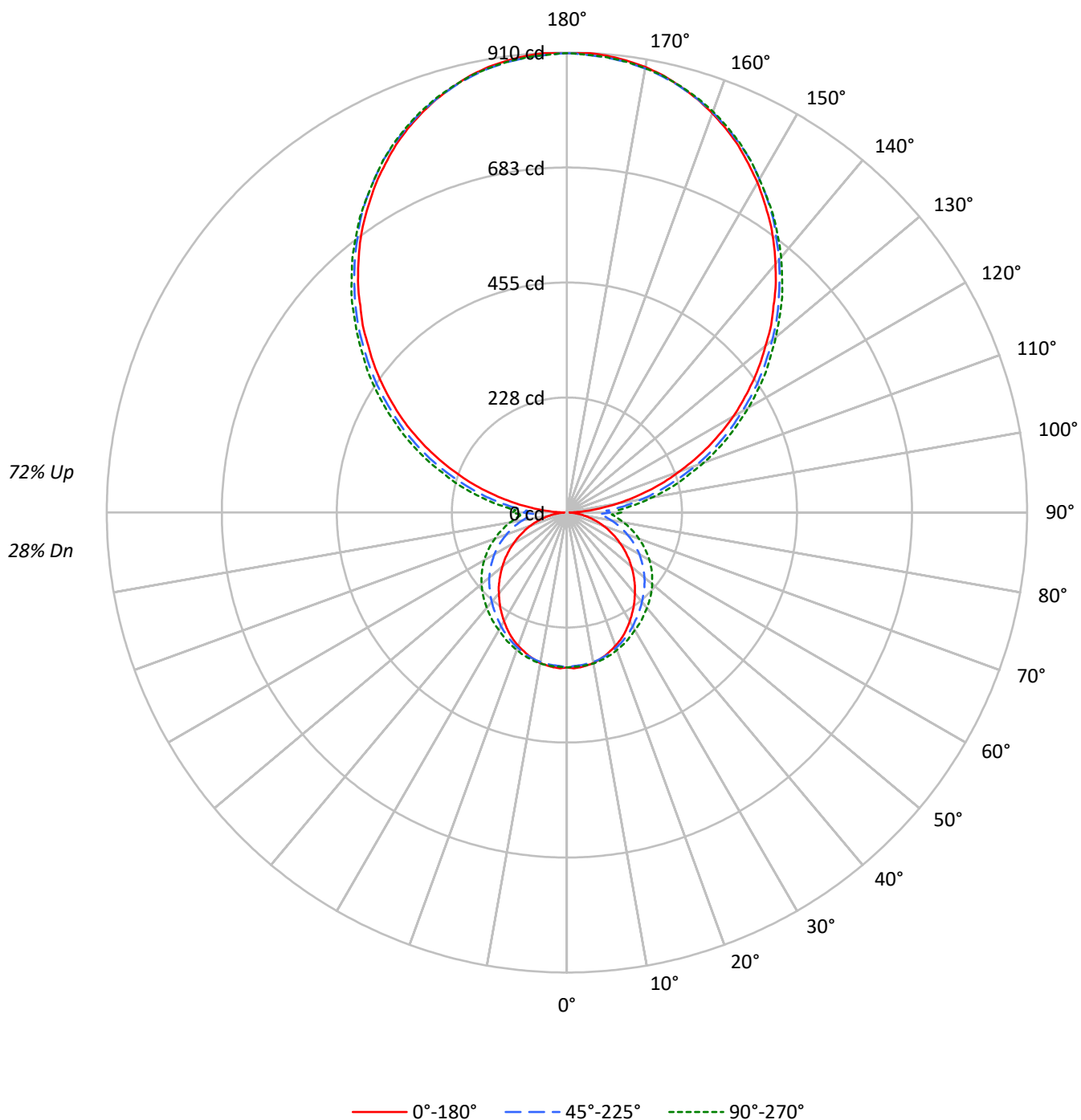
Lumens per Lamp: N/A
Luminaire Lumens: 3712.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	92	87	83	80	82	78	75	72	61	59	56	45	43	42	30	29	29
2	83	76	70	64	74	68	63	58	53	49	46	39	37	34	26	25	23
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	20
4	69	58	51	45	61	52	46	40	41	36	32	30	27	24	20	18	17
5	63	52	44	38	56	46	39	34	36	31	27	27	24	21	18	16	14
6	58	46	38	32	52	41	35	30	33	27	24	24	21	18	16	14	12
7	54	41	34	28	48	37	30	26	29	24	21	22	18	16	15	13	11
8	50	37	30	25	44	34	27	22	27	22	18	20	16	14	14	11	10
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	13	10	9
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	12	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4850	4850	4850
5°	4872	4643	4617
10°	4839	4483	4417
15°	4770	4315	4212
20°	4684	4141	4017
25°	4599	3973	3840
30°	4479	3804	3665
35°	4360	3639	3537
40°	4232	3498	3409
45°	4112	3370	3298
50°	3982	3252	3188
55°	3845	3126	3076
60°	3678	2994	2959
65°	3505	2843	2824
70°	3309	2682	2678
75°	3054	2520	2542
80°	2659	2351	2399
85°	2260	2192	2276

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	0.8
10°-20°	83.3	2.2
20°-30°	126.2	3.4
30°-40°	153.7	4.1
40°-50°	165.4	4.5
50°-60°	160.6	4.3
60°-70°	140.2	3.8
70°-80°	108.0	2.9
80°-90°	74.9	2.0
90°-100°	106.1	2.9
100°-110°	215.1	5.8
110°-120°	329.8	8.9
120°-130°	415.5	11.2
130°-140°	457.0	12.3
140°-150°	443.6	11.9
150°-160°	371.3	10.0
160°-170°	246.2	6.6
170°-180°	86.1	2.3
0°-30°	238.5	6.4
0°-40°	392.2	10.6
0°-60°	718.2	19.3
0°-90°	1041.3	28.1
90°-120°	651.0	17.5
90°-150°	1967.1	53.0
90°-180°	2671.0	72.0
0°-180°	3712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	306	306	306	306	306	
5°	307	306	303	306	306	29
15°	293	294	294	298	298	83
25°	266	270	274	279	280	123
35°	230	237	246	255	258	143
45°	188	200	216	230	234	145
55°	144	160	183	199	205	129
65°	99	120	146	165	170	98
75°	55	80	108	127	133	58
85°	16	44	72	91	97	17
90°	5	40	85	102	108	6
95°	44	72	100	117	121	47
105°	167	182	207	224	229	177
115°	308	318	336	349	352	305
125°	447	454	466	476	479	400
135°	578	586	592	601	602	447
145°	701	706	711	714	713	438
155°	801	804	806	810	807	369
165°	872	871	871	876	873	246
175°	907	905	903	909	904	86
180°	909	909	909	909	909	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	306.4	306.4	306.4	306.4	306.4
2.5°	308.6	307.3	304.1	306.4	305.5
5°	307.3	305.9	303.3	305.9	305.5
7.5°	305.0	304.1	301.9	305.0	304.6
10°	302.4	301.5	300.2	303.7	303.3
12.5°	297.9	298.4	297.5	301.0	300.6
15°	293.0	293.9	293.9	297.9	297.5
17.5°	286.8	288.6	289.9	293.9	293.9
20°	280.6	282.8	284.6	289.5	289.5
22.5°	274.0	276.6	279.3	284.2	285.1
25°	266.4	269.5	273.5	278.8	280.2
27.5°	257.5	262.4	266.9	273.5	274.4
30°	248.6	254.4	260.2	267.3	268.6
32.5°	238.9	245.5	252.6	261.1	263.7
35°	229.6	237.1	245.5	255.3	258.4
37.5°	219.3	227.8	238.4	249.1	252.2
40°	209.1	218.9	230.9	242.4	246.4
42.5°	199.4	209.1	223.3	236.2	240.2
45°	188.3	200.3	215.8	229.6	234.0
47.5°	177.6	190.5	208.2	222.5	227.3
50°	166.5	180.3	200.3	215.3	220.2
52.5°	155.8	170.5	191.8	207.4	212.7
55°	144.3	160.3	183.4	199.4	205.1
57.5°	133.2	151.0	174.1	191.4	197.1
60°	121.2	140.3	165.6	182.5	188.7
62.5°	110.6	130.5	155.8	174.1	179.8
65°	98.6	120.3	146.5	164.7	170.5
67.5°	87.9	110.6	137.2	155.4	161.6
70°	76.4	99.5	127.0	146.1	151.4
72.5°	65.7	89.7	117.7	136.3	143.0
75°	54.6	79.5	107.9	127.0	132.8
77.5°	44.0	69.7	98.6	117.7	123.9
80°	33.3	60.4	89.2	107.9	114.1
82.5°	24.4	51.1	80.4	99.0	104.8
85°	16.0	43.5	71.9	90.6	96.8
87.5°	9.8	36.4	64.8	83.0	88.8
90°	5.2	40.2	85.4	101.7	107.8
92.5°	20.9	50.5	78.4	96.4	101.8
95°	43.5	71.9	100.2	117.0	120.8
97.5°	69.8	95.8	124.7	141.1	146.4
100°	100.5	123.0	150.2	166.6	170.8
102.5°	132.3	151.5	178.6	195.3	199.5
105°	167.1	182.3	206.9	223.9	228.8
107.5°	202.3	216.1	238.3	254.2	255.2
110°	235.7	249.2	270.9	285.1	287.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	272.5	284.2	303.8	315.7	319.1
115°	308.5	318.0	336.4	349.0	351.5
117.5°	344.1	353.8	368.6	379.7	381.8
120°	380.1	388.0	399.7	412.1	414.7
122.5°	413.1	421.2	433.8	443.5	446.0
125°	447.2	454.1	466.0	475.7	478.9
127.5°	480.9	488.8	497.8	505.8	507.5
130°	512.4	521.8	529.7	538.8	539.3
132.5°	547.6	554.8	562.3	568.6	569.9
135°	577.8	586.2	592.3	600.8	602.1
137.5°	611.5	618.4	622.3	629.9	629.9
140°	641.4	647.9	652.7	659.8	659.4
142.5°	672.1	678.6	680.9	687.0	686.1
145°	700.8	706.2	710.8	714.3	713.4
147.5°	726.9	733.8	736.9	738.8	737.2
150°	753.8	758.4	761.4	763.7	761.4
152.5°	777.5	782.1	786.0	789.0	786.0
155°	801.3	803.6	805.9	809.7	807.4
157.5°	822.0	823.5	825.1	830.4	826.6
160°	840.4	841.9	842.7	847.3	844.2
162.5°	857.3	857.3	858.0	863.4	859.6
165°	871.8	871.1	871.1	876.4	872.6
167.5°	884.9	882.6	882.6	887.9	884.1
170°	894.8	892.5	891.8	897.1	892.5
172.5°	901.7	899.4	898.7	904.0	899.4
175°	907.1	904.8	903.3	908.7	904.0
177.5°	910.2	907.9	906.3	911.0	906.3
180°	908.7	908.7	908.7	908.7	908.7

(END OF REPORT)