

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: P1008876

Luminaire Tested: S122DIP-B290D530UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008876
REPORT IS A COMBINATION OF REPORTS P983976 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D530UB35-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

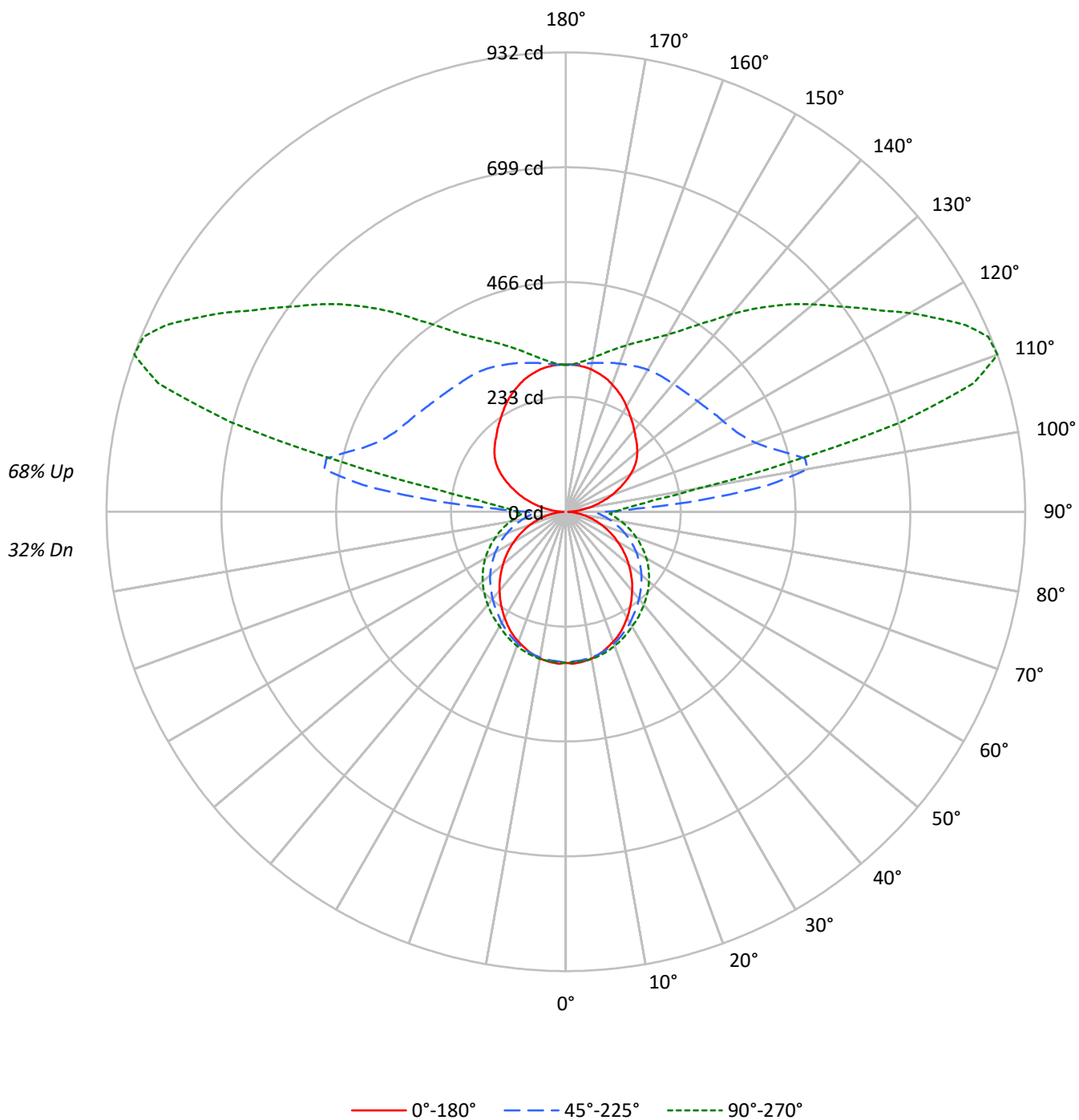
Lumens per Lamp: N/A
Luminaire Lumens: 3251.4 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40
1	93	88	84	80	83	79	76	73	63	60	58	47	46	44	33	32	31
2	84	76	70	65	75	69	63	59	54	51	47	41	39	36	29	27	26
3	76	67	59	53	68	60	54	49	48	43	39	36	33	30	25	23	21
4	70	59	51	45	62	53	46	41	42	37	33	32	28	26	22	20	18
5	64	52	44	38	57	47	40	35	37	32	28	28	25	22	20	18	16
6	59	47	38	33	52	42	35	30	33	28	24	26	22	19	18	16	14
7	54	42	34	28	48	38	31	26	30	25	21	23	19	17	16	14	12
8	50	38	30	25	45	34	27	23	27	22	19	21	17	15	15	13	11
9	46	34	27	22	42	31	25	20	25	20	17	19	16	13	14	11	10
10	43	31	24	19	39	28	22	18	23	18	15	18	14	12	13	10	9

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	0.9
10°-20°	83.3	2.6
20°-30°	126.2	3.9
30°-40°	153.7	4.7
40°-50°	165.4	5.1
50°-60°	160.6	4.9
60°-70°	140.2	4.3
70°-80°	108.0	3.3
80°-90°	74.2	2.3
90°-100°	170.8	5.3
100°-110°	445.4	13.7
110°-120°	453.9	14.0
120°-130°	366.9	11.3
130°-140°	289.7	8.9
140°-150°	215.5	6.6
150°-160°	150.9	4.6
160°-170°	88.8	2.7
170°-180°	28.9	0.9
0°-30°	238.5	7.3
0°-40°	392.2	12.1
0°-60°	718.2	22.1
0°-90°	1040.6	32.0
90°-120°	1070.1	32.9
90°-150°	1942.2	59.7
90°-180°	2211.0	68.0
0°-180°	3251.4	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	38	78	95	101	4
95°	24	74	276	153	139	24
105°	72	121	463	814	705	77
115°	125	162	382	774	896	124
125°	173	205	357	622	721	154
135°	202	241	343	514	590	156
145°	231	265	336	420	462	145
155°	262	283	326	369	384	121
165°	286	294	313	332	337	81
175°	298	298	301	304	304	28
180°	298	298	298	298	298	

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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°	5.0	38.0	78.1	95.1	100.6
92.5°	12.6	54.8	143.0	112.6	112.3
95°	23.7	73.8	276.0	152.8	138.7
97.5°	32.9	87.4	414.7	234.8	179.3
100°	47.3	99.2	497.7	400.2	271.1
102.5°	60.1	110.2	497.5	631.2	462.7
105°	72.2	120.7	463.4	813.8	705.3
107.5°	86.0	131.1	431.6	877.7	867.7
110°	99.4	141.8	409.4	863.2	931.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.0	152.4	393.7	823.0	927.5
115°	125.2	162.5	382.4	774.2	895.8
117.5°	138.5	173.0	374.7	727.8	849.9
120°	151.1	183.3	368.1	685.5	806.0
122.5°	163.1	194.3	363.1	652.2	759.5
125°	173.1	204.6	357.1	621.9	721.4
127.5°	181.7	214.8	352.7	595.0	685.1
130°	189.1	224.2	348.9	568.4	654.7
132.5°	196.0	233.4	345.7	540.9	623.4
135°	202.4	241.4	342.9	514.1	589.9
137.5°	208.7	248.3	340.7	486.8	557.1
140°	216.2	254.2	338.3	462.5	523.1
142.5°	223.6	259.4	337.4	439.4	489.5
145°	230.7	265.1	336.3	420.2	461.7
147.5°	238.7	269.7	334.6	403.2	436.2
150°	246.8	274.3	332.8	390.2	414.9
152.5°	254.8	278.9	330.0	379.6	398.3
155°	262.2	283.2	326.5	369.2	383.9
157.5°	268.6	286.6	323.1	359.5	371.3
160°	274.9	290.0	319.6	349.8	359.2
162.5°	281.2	292.7	316.8	340.6	347.8
165°	285.8	294.4	312.7	331.6	336.9
167.5°	289.8	296.2	309.3	323.6	326.5
170°	293.8	297.0	306.4	316.2	317.3
172.5°	296.1	297.8	303.0	309.6	309.9
175°	297.8	298.1	300.7	304.4	303.6
177.5°	299.0	298.4	298.4	300.7	299.0
180°	298.4	298.4	298.4	298.4	298.4

(END OF REPORT)