

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: P1008919

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008919
REPORT IS A COMBINATION OF REPORTS P984034 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-D
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

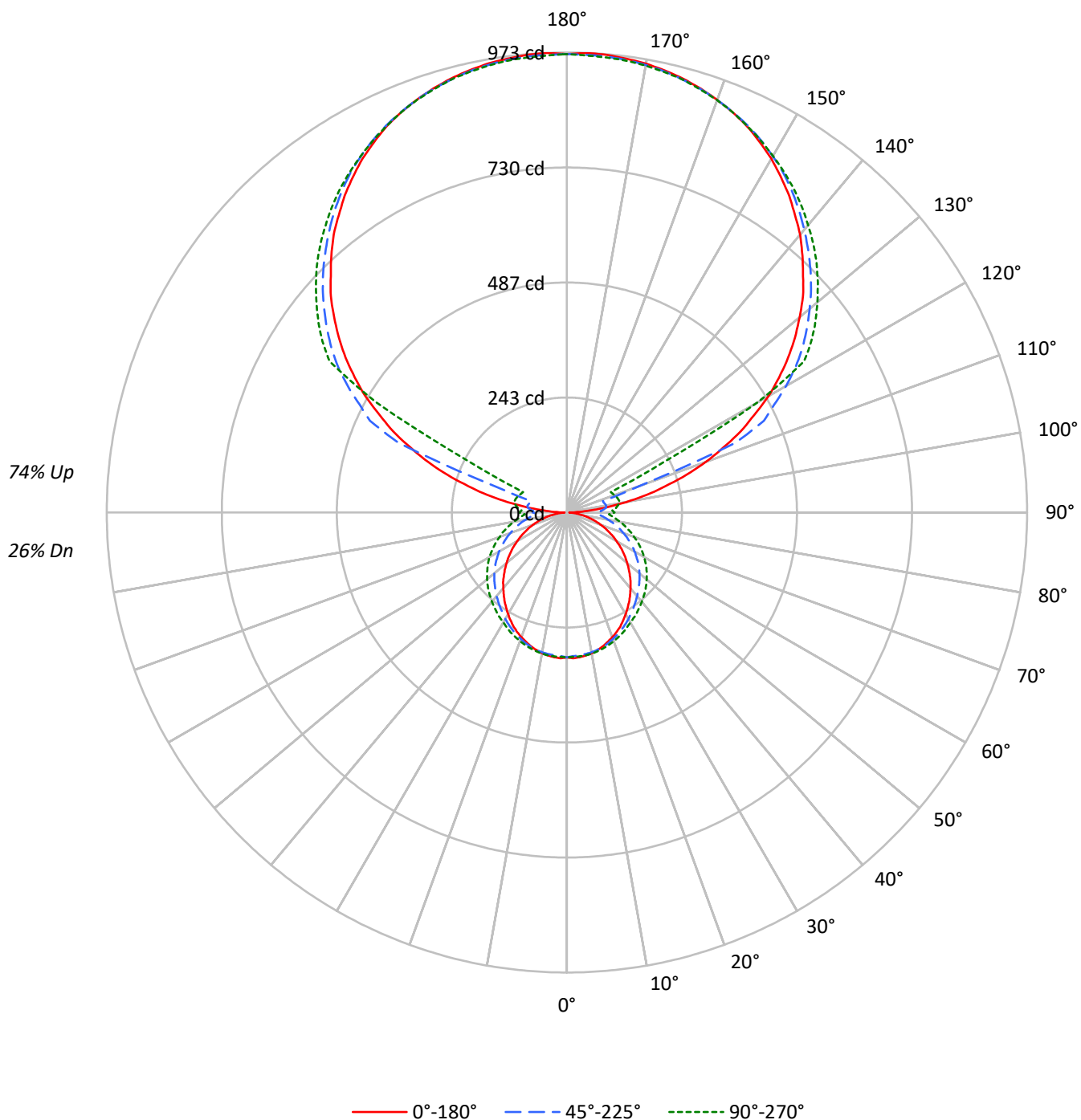
Lumens per Lamp: N/A
Luminaire Lumens: 4013.0 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	101	101	101	101	90	90	90	90	70	70	70		51	51	51		34
1	92	87	83	79	81	78	74	71	60	58	56		44	42	41		29
2	83	76	69	64	74	67	62	58	52	48	45		38	36	33		25
3	76	66	59	53	67	59	53	48	46	41	38		33	30	28		22
4	69	58	50	44	61	52	45	40	40	36	32		29	26	24		19
5	63	52	44	38	56	46	39	34	36	31	27		26	23	20		17
6	58	46	38	32	51	41	34	29	32	27	23		24	20	18		16
7	53	41	34	28	47	37	30	25	29	24	20		21	18	15		14
8	49	37	30	25	44	33	27	22	26	21	18		19	16	14		13
9	46	34	27	22	41	30	24	20	24	19	16		18	14	12		12
10	43	31	24	19	38	28	22	17	22	17	14		16	13	11		11

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	0.7
10°-20°	83.3	2.1
20°-30°	126.2	3.1
30°-40°	153.7	3.8
40°-50°	165.4	4.1
50°-60°	160.6	4.0
60°-70°	140.2	3.5
70°-80°	108.0	2.7
80°-90°	74.0	1.8
90°-100°	81.8	2.0
100°-110°	155.6	3.9
110°-120°	340.1	8.5
120°-130°	537.6	13.4
130°-140°	562.5	14.0
140°-150°	518.5	12.9
150°-160°	416.1	10.4
160°-170°	268.1	6.7
170°-180°	92.3	2.3
0°-30°	238.5	5.9
0°-40°	392.2	9.8
0°-60°	718.2	17.9
0°-90°	1040.4	25.9
90°-120°	577.6	14.4
90°-150°	2196.1	54.7
90°-180°	2973.0	74.1
0°-180°	4013.0	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	39	73	94	101	6
95°	49	47	78	99	104	57
105°	216	249	81	104	112	230
115°	405	422	459	148	102	399
125°	571	580	608	625	631	510
135°	706	717	728	744	747	546
145°	819	818	830	838	836	512
155°	902	895	904	908	902	415
165°	950	946	948	953	948	268
175°	972	967	968	973	966	92
180°	970	970	970	970	970	

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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°	5.1	38.6	72.6	93.9	100.6
92.5°	21.5	42.2	71.4	90.1	96.2
95°	49.2	46.8	78.5	98.8	103.5
97.5°	85.2	46.8	83.8	102.3	108.3
100°	127.3	47.6	84.4	106.4	112.7
102.5°	173.2	186.4	82.7	106.4	113.4
105°	215.5	249.4	81.0	104.2	111.9
107.5°	265.3	293.5	79.3	102.1	109.8
110°	312.6	336.2	155.2	99.2	106.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.5	377.2	385.7	97.5	104.5
115°	405.2	422.0	459.4	148.0	102.3
117.5°	446.1	463.7	494.2	407.3	227.9
120°	492.4	504.7	535.1	555.9	466.1
122.5°	531.7	543.4	573.8	590.0	594.7
125°	571.2	580.4	607.9	624.8	630.9
127.5°	607.7	617.0	639.6	657.7	662.4
130°	642.1	652.8	669.9	688.3	691.2
132.5°	677.2	685.8	700.2	716.7	719.6
135°	706.1	717.4	728.2	744.5	746.7
137.5°	737.0	745.4	754.7	770.2	771.2
140°	767.2	772.4	781.0	794.4	793.6
142.5°	792.4	796.9	806.1	817.0	815.7
145°	818.7	818.0	829.9	837.5	836.2
147.5°	841.8	839.7	851.7	855.6	854.2
150°	864.3	859.4	870.6	874.8	871.3
152.5°	883.2	877.6	888.1	892.4	887.4
155°	901.5	895.2	903.6	907.8	902.2
157.5°	916.2	910.6	916.9	921.8	916.2
160°	928.8	924.6	928.8	933.0	928.1
162.5°	940.1	935.8	939.4	944.3	938.0
165°	949.9	945.7	947.8	952.7	947.8
167.5°	957.6	953.4	955.5	960.4	954.1
170°	963.9	959.7	961.1	966.0	959.7
172.5°	968.1	963.9	965.3	970.2	963.9
175°	971.6	966.7	968.1	973.0	966.0
177.5°	973.0	968.1	968.8	973.7	967.4
180°	969.5	969.5	969.5	969.5	969.5

(END OF REPORT)