

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: P1008789

Luminaire Tested: S122DIP-B290D1080UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008789
REPORT IS A COMBINATION OF REPORTS P983856 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D1080UB35-4F0-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

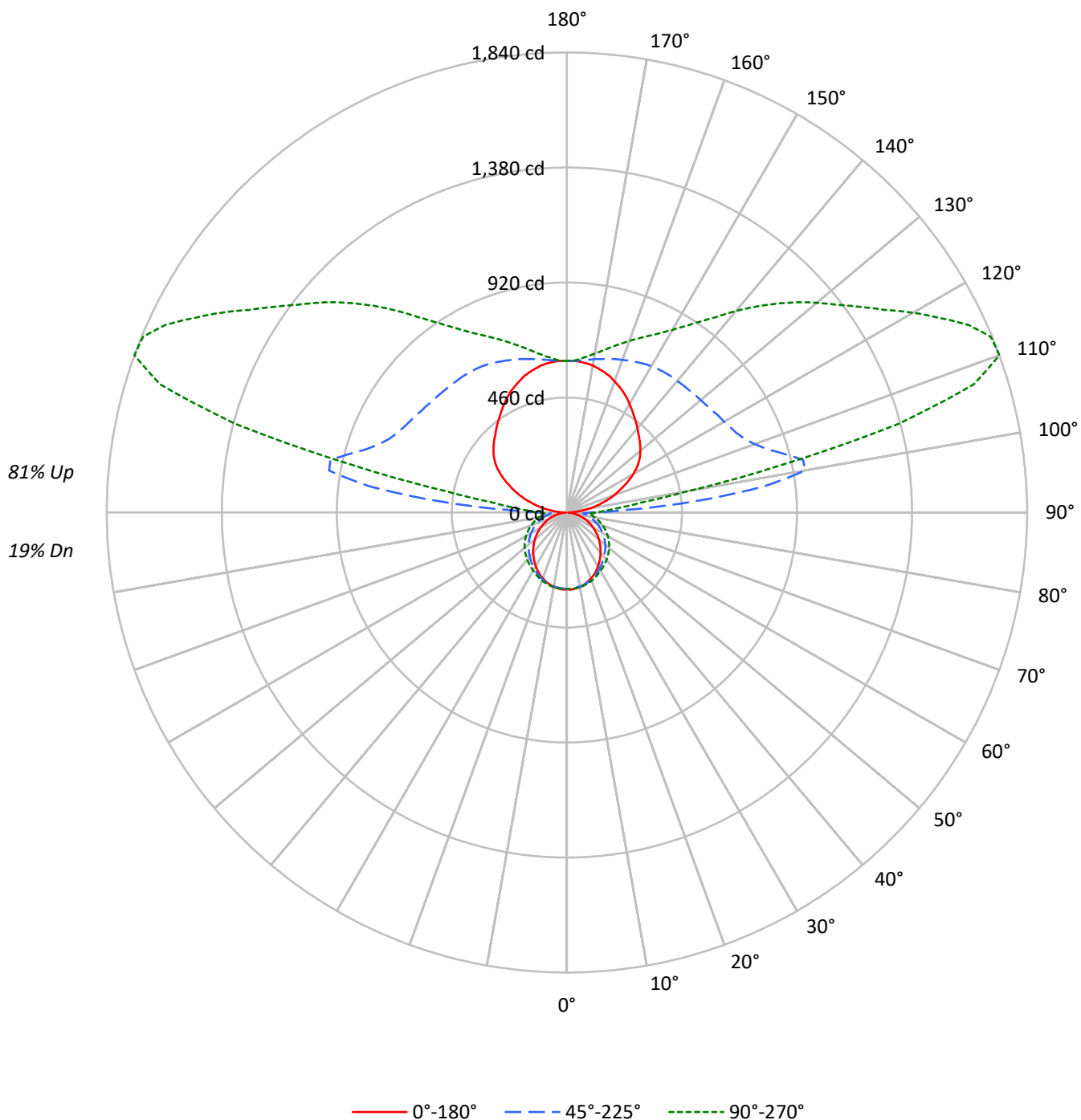
Lumens per Lamp: N/A
Luminaire Lumens: 5399.9 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28
1	90	86	82	78	79	76	73	70	57	55	53	40	38	37	24	23	22
2	82	75	69	64	72	66	61	57	50	46	43	34	32	30	20	19	18
3	75	65	58	52	65	58	52	47	43	39	36	30	28	25	18	17	15
4	68	58	50	44	60	51	44	39	38	34	30	27	24	22	16	14	13
5	62	51	43	37	55	45	38	33	34	29	26	24	21	18	14	13	11
6	57	45	38	32	50	40	34	29	30	26	22	21	18	16	13	11	10
7	53	41	33	28	46	36	30	25	27	23	19	19	16	14	12	10	9
8	49	37	29	24	43	33	26	22	25	20	17	18	14	12	11	9	8
9	45	33	26	21	40	30	23	19	23	18	15	16	13	11	10	8	7
10	42	30	23	19	37	27	21	17	21	16	13	15	12	10	9	7	6

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	0.5
10°-20°	83.3	1.5
20°-30°	126.2	2.3
30°-40°	153.7	2.8
40°-50°	165.4	3.1
50°-60°	160.6	3.0
60°-70°	140.2	2.6
70°-80°	108.0	2.0
80°-90°	76.2	1.4
90°-100°	295.6	5.5
100°-110°	867.3	16.1
110°-120°	897.4	16.6
120°-130°	731.6	13.5
130°-140°	582.7	10.8
140°-150°	436.9	8.1
150°-160°	306.5	5.7
160°-170°	180.5	3.3
170°-180°	58.7	1.1
0°-30°	238.5	4.4
0°-40°	392.2	7.3
0°-60°	718.2	13.3
0°-90°	1042.6	19.3
90°-120°	2060.4	38.2
90°-150°	3811.6	70.6
90°-180°	4357.0	80.7
0°-180°	5399.9	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°	6	46	98	114	120	6
95°	44	125	508	240	206	45
105°	144	230	902	1598	1373	154
115°	252	323	750	1532	1774	250
125°	351	415	710	1236	1434	312
135°	411	490	692	1030	1180	317
145°	469	539	683	851	933	294
155°	533	575	663	750	780	245
165°	581	598	635	674	684	164
175°	605	606	611	618	617	57
180°	606	606	606	606	606	

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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°	5.6	46.0	98.2	114.3	120.2
92.5°	21.5	82.9	234.2	154.6	148.4
95°	44.4	124.7	508.1	240.4	206.2
97.5°	63.7	154.5	793.0	410.7	292.4
100°	92.9	181.6	965.5	750.4	483.1
102.5°	119.3	206.2	968.2	1223.2	876.0
105°	144.4	229.6	902.1	1598.0	1372.6
107.5°	172.4	253.1	840.7	1731.4	1706.0
110°	200.0	277.1	798.4	1705.7	1840.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.7	300.4	769.7	1627.4	1834.6
115°	252.5	323.2	749.5	1531.8	1773.8
117.5°	280.0	346.5	737.0	1440.6	1684.1
120°	305.6	369.2	726.3	1358.4	1598.2
122.5°	330.1	393.0	718.9	1294.0	1507.9
125°	350.7	414.8	710.0	1235.6	1433.7
127.5°	368.2	435.9	703.8	1184.8	1363.6
130°	383.3	455.1	698.9	1133.9	1305.3
132.5°	397.3	473.8	695.0	1081.2	1245.1
135°	410.8	490.1	691.6	1029.8	1180.2
137.5°	423.6	504.0	689.4	977.6	1117.2
140°	438.8	516.5	686.5	931.4	1051.9
142.5°	453.9	527.0	685.6	887.3	986.9
145°	468.7	538.6	683.2	850.9	933.0
147.5°	485.0	548.0	679.7	818.8	884.4
150°	501.3	557.3	676.2	792.8	843.0
152.5°	517.7	566.6	670.4	771.2	809.1
155°	532.8	575.4	663.4	750.3	780.0
157.5°	545.6	582.4	656.4	730.4	754.3
160°	558.5	589.4	649.4	710.6	729.9
162.5°	571.3	594.6	643.6	692.0	706.5
165°	580.6	598.1	635.4	673.9	684.4
167.5°	588.8	601.6	628.4	657.6	663.4
170°	596.9	603.4	622.6	642.4	644.7
172.5°	601.6	605.1	615.6	629.0	629.6
175°	605.1	605.7	610.9	618.5	616.8
177.5°	607.4	606.3	606.3	610.9	607.4
180°	606.3	606.3	606.3	606.3	606.3

(END OF REPORT)