

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: P1008627

Luminaire Tested: S122DIP-B1005D330UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008627
REPORT IS A COMBINATION OF REPORTS P983634 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D330UB50-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

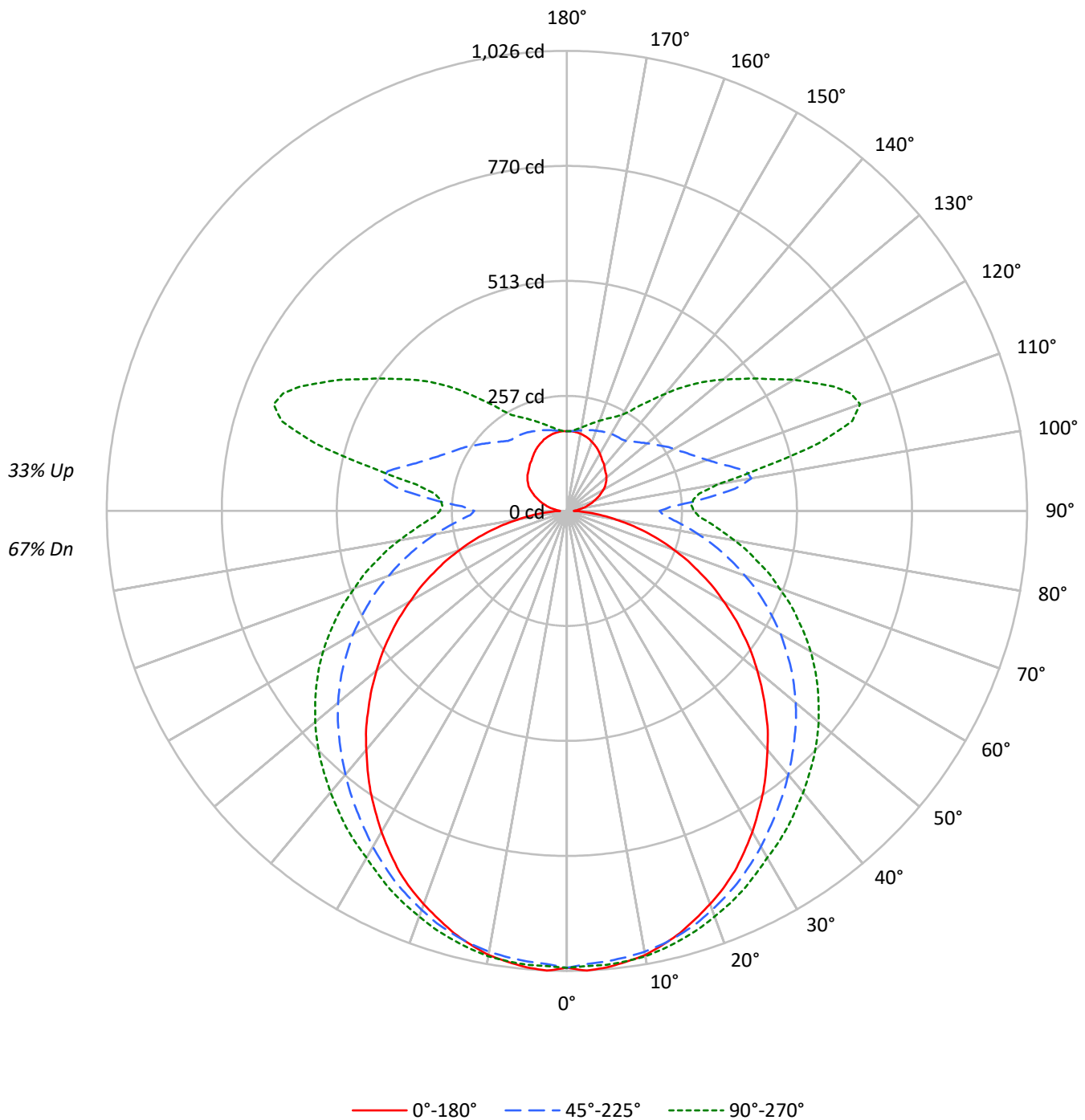
Lumens per Lamp: N/A
Luminaire Lumens: 5128.4 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93		82	82	82		72	72	72	67
1	100	94	90	85	94	89	85	81	79	75	72		69	67	64		61	59	57	53
2	90	81	74	68	84	77	70	65	68	63	58		60	56	52		52	49	46	42
3	82	71	62	56	76	67	59	53	59	53	48		52	47	43		46	42	39	35
4	74	62	53	47	70	59	51	45	52	46	41		46	41	37		40	36	33	29
5	68	55	46	40	64	52	44	38	47	40	35		41	36	31		36	32	28	25
6	63	50	41	34	59	47	39	33	42	35	30		37	32	27		33	28	25	22
7	58	45	36	30	54	42	34	29	38	31	26		34	28	24		30	25	22	19
8	54	41	32	27	50	38	31	25	35	28	23		31	25	21		27	23	19	17
9	50	37	29	24	47	35	28	23	32	25	21		28	23	19		25	21	17	15
10	47	34	26	21	44	32	25	20	29	23	19		26	21	17		23	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16130	16130	16130
5°	16202	15441	15354
10°	16094	14906	14688
15°	15867	14353	14006
20°	15580	13772	13358
25°	15298	13216	12771
30°	14901	12651	12190
35°	14500	12105	11764
40°	14078	11634	11339
45°	13674	11207	10970
50°	13243	10813	10604
55°	12787	10395	10233
60°	12235	9958	9842
65°	11653	9457	9392
70°	11000	8921	8909
75°	10159	8383	8452
80°	8846	7821	7978
85°	7515	7294	7570

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.9
10°-20°	277.0	5.4
20°-30°	419.8	8.2
30°-40°	511.2	10.0
40°-50°	550.0	10.7
50°-60°	534.1	10.4
60°-70°	466.4	9.1
70°-80°	359.0	7.0
80°-90°	241.6	4.7
90°-100°	237.9	4.6
100°-110°	364.7	7.1
110°-120°	336.0	6.6
120°-130°	255.1	5.0
130°-140°	187.9	3.7
140°-150°	131.0	2.6
150°-160°	89.9	1.8
160°-170°	52.9	1.0
170°-180°	17.2	0.3
0°-30°	793.4	15.5
0°-40°	1304.6	25.4
0°-60°	2388.7	46.6
0°-90°	3455.7	67.4
90°-120°	938.7	18.3
90°-150°	1512.7	29.5
90°-180°	1673.0	32.6
0°-180°	5128.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1022	1018	1009	1018	1016	97
15°	975	978	978	991	989	275
25°	886	896	910	927	932	407
35°	764	789	817	849	860	477
45°	626	666	718	764	778	483
55°	480	533	610	663	682	429
65°	328	400	487	548	567	326
75°	182	264	359	422	442	192
85°	53	145	239	301	322	56
90°	15	105	206	265	283	11
95°	24	111	304	276	283	22
105°	49	113	380	631	580	53
115°	79	115	300	570	656	78
125°	106	124	254	444	515	94
135°	122	145	218	345	400	95
145°	137	158	200	258	288	87
155°	156	169	194	220	229	72
165°	170	175	186	198	201	48
175°	177	178	179	181	181	17
180°	178	178	178	178	178	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1019.0	1019.0	1019.0	1019.0	1019.0
2.5°	1026.3	1021.9	1011.6	1019.0	1016.0
5°	1021.9	1017.5	1008.6	1017.5	1016.0
7.5°	1014.5	1011.6	1004.2	1014.5	1013.1
10°	1005.7	1002.7	998.3	1010.1	1008.6
12.5°	990.9	992.4	989.4	1001.2	999.8
15°	974.7	977.6	977.6	990.9	989.4
17.5°	954.0	959.9	964.3	977.6	977.6
20°	933.3	940.7	946.6	962.8	962.8
22.5°	911.2	920.0	928.9	945.1	948.1
25°	886.1	896.4	909.7	927.4	931.8
27.5°	856.5	872.8	887.5	909.7	912.6
30°	827.0	846.2	865.4	889.0	893.4
32.5°	794.5	816.6	840.3	868.3	877.2
35°	763.5	788.6	816.6	849.1	859.5
37.5°	729.5	757.6	793.0	828.5	838.8
40°	695.6	728.0	767.9	806.3	819.6
42.5°	663.1	695.6	742.8	785.6	798.9
45°	626.1	666.0	717.7	763.5	778.3
47.5°	590.7	633.5	692.6	739.9	756.1
50°	553.8	599.6	666.0	716.2	732.5
52.5°	518.3	567.1	638.0	689.6	707.4
55°	479.9	533.1	609.9	663.1	682.3
57.5°	443.0	502.1	578.9	636.5	655.7
60°	403.2	466.7	550.8	606.9	627.6
62.5°	367.7	434.2	518.3	578.9	598.1
65°	327.8	400.2	487.3	547.9	567.1
67.5°	292.4	367.7	456.3	516.9	537.5
70°	254.0	330.8	422.4	485.9	503.6
72.5°	218.6	298.3	391.3	453.4	475.5
75°	181.6	264.3	358.9	422.4	441.6
77.5°	146.2	231.9	327.8	391.3	412.0
80°	110.8	200.8	296.8	358.9	379.5
82.5°	81.2	169.8	267.3	329.3	348.5
85°	53.2	144.7	239.2	301.3	321.9
87.5°	32.5	121.1	215.6	276.2	295.4
90°	15.1	105.0	206.5	265.1	283.0
92.5°	18.4	107.8	234.2	263.4	277.9
95°	23.8	110.6	303.8	276.5	282.7
97.5°	28.1	112.6	377.9	315.6	297.2
100°	36.6	112.5	417.7	404.5	341.0
102.5°	43.1	113.0	409.1	532.3	445.3
105°	49.1	113.1	380.3	631.4	580.1
107.5°	57.3	113.2	352.9	659.8	667.1
110°	64.0	113.6	332.4	641.5	695.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	71.5	115.0	314.6	609.1	684.7
115°	79.4	115.0	300.5	570.3	656.1
117.5°	86.1	116.4	287.5	534.2	618.9
120°	93.6	117.6	276.2	499.2	584.4
122.5°	100.8	120.6	265.9	470.9	545.8
125°	105.5	124.4	253.9	444.4	514.6
127.5°	110.7	129.2	244.0	418.8	483.3
130°	115.1	134.8	234.5	394.4	455.4
132.5°	119.2	140.3	225.3	369.5	428.3
135°	121.8	145.1	217.5	345.0	399.9
137.5°	125.6	149.1	210.2	320.2	370.7
140°	130.0	151.4	204.0	297.3	340.7
142.5°	134.5	154.5	201.0	276.3	312.2
145°	137.4	158.0	200.3	257.5	288.3
147.5°	142.2	160.6	199.3	241.4	264.7
150°	147.0	163.4	198.3	232.4	247.1
152.5°	151.8	166.2	196.6	226.2	237.2
155°	156.2	168.7	194.5	220.0	228.7
157.5°	160.0	170.8	192.4	214.2	221.2
160°	163.7	172.8	190.4	208.3	214.0
162.5°	167.5	174.4	188.7	202.8	207.1
165°	170.2	175.4	186.3	197.6	200.7
167.5°	172.6	176.4	184.2	192.8	194.5
170°	175.0	176.9	182.5	188.4	189.0
172.5°	176.4	177.4	180.5	184.4	184.6
175°	177.4	177.6	179.1	181.4	180.8
177.5°	178.1	177.8	177.8	179.1	178.1
180°	177.8	177.8	177.8	177.8	177.8

(END OF REPORT)