

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: P1008625

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008625
REPORT IS A COMBINATION OF REPORTS P983632 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-D
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

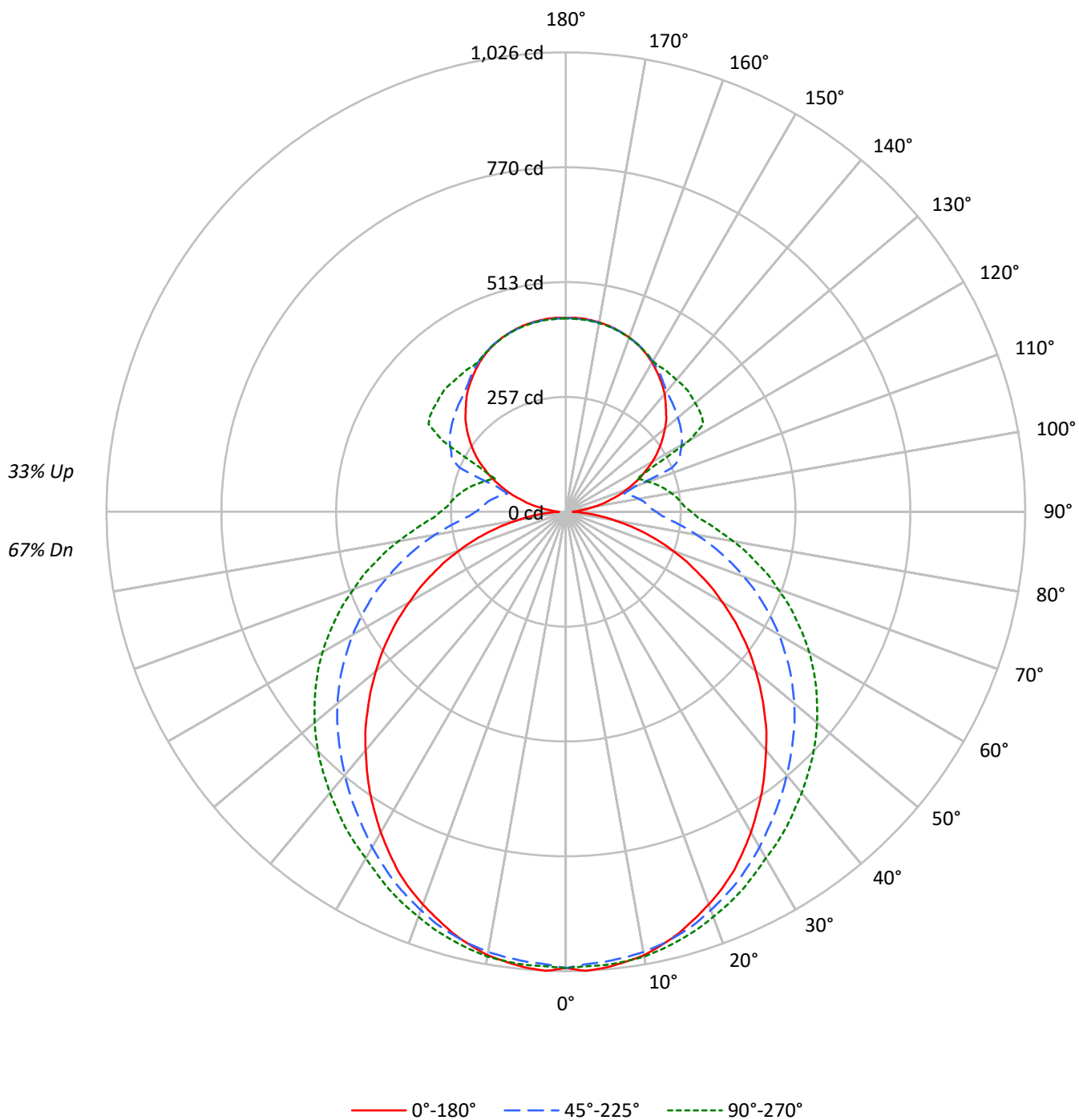
Lumens per Lamp: N/A
Luminaire Lumens: 5156.0 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	93	89	85	81	78	75	72		69	67	64		60	58	57	52
2	90	81	74	68	84	77	70	65	68	63	58		59	56	52		52	49	46	42
3	82	71	62	56	76	67	59	53	59	53	48		52	47	43		45	42	38	35
4	74	62	53	47	69	59	51	45	52	46	40		46	41	36		40	36	33	29
5	68	55	46	40	64	52	44	38	46	40	35		41	36	31		36	32	28	25
6	63	50	41	34	59	47	39	33	42	35	30		37	31	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	26	50	38	31	25	34	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	8.1
30°-40°	511.2	9.9
40°-50°	550.0	10.7
50°-60°	534.1	10.4
60°-70°	466.4	9.0
70°-80°	359.0	7.0
80°-90°	241.2	4.7
90°-100°	180.1	3.5
100°-110°	174.3	3.4
110°-120°	220.9	4.3
120°-130°	278.3	5.4
130°-140°	267.0	5.2
140°-150°	233.9	4.5
150°-160°	185.5	3.6
160°-170°	119.5	2.3
170°-180°	41.1	0.8
0°-30°	793.4	15.4
0°-40°	1304.6	25.3
0°-60°	2388.7	46.3
0°-90°	3455.3	67.0
90°-120°	575.3	11.2
90°-150°	1354.5	26.3
90°-180°	1701.0	33.0
0°-180°	5156.0	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	104	201	262	280	11
95°	32	91	182	240	257	33
105°	102	155	146	201	219	110
115°	186	207	282	181	175	182
125°	257	261	314	357	371	230
135°	316	321	339	373	384	245
145°	365	365	370	381	387	229
155°	402	399	403	405	402	185
165°	424	422	423	425	423	120
175°	433	431	432	434	431	41
180°	432	432	432	432	432	

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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	104.2	201.2	261.8	280.1
92.5°	21.1	98.2	189.1	247.3	265.4
95°	32.1	91.2	182.0	239.7	257.1
97.5°	46.9	84.7	175.5	231.0	249.1
100°	65.7	77.5	165.5	222.6	239.6
102.5°	84.9	133.0	155.8	212.4	229.5
105°	102.5	154.7	146.1	201.2	218.7
107.5°	124.7	167.9	136.4	190.0	207.5
110°	144.5	180.5	162.5	178.6	196.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.5	193.7	256.4	168.8	186.0
115°	185.7	207.4	281.6	181.1	174.8
117.5°	202.7	220.8	288.2	287.7	220.5
120°	223.3	233.9	298.7	343.8	317.8
122.5°	240.9	247.4	308.2	350.0	363.6
125°	257.3	261.4	314.5	356.6	370.8
127.5°	273.6	276.4	320.9	361.1	374.7
130°	288.9	292.4	326.8	365.7	377.2
132.5°	304.5	307.1	332.6	369.4	380.9
135°	316.2	321.2	338.7	372.9	384.1
137.5°	329.9	333.7	344.2	375.3	384.8
140°	343.4	344.4	350.8	377.2	384.5
142.5°	354.6	355.3	359.4	379.6	385.4
145°	365.0	364.7	370.0	381.1	386.8
147.5°	375.3	374.4	379.7	382.8	385.9
150°	385.3	383.2	388.2	390.0	388.5
152.5°	393.8	391.3	396.0	397.9	395.7
155°	401.9	399.1	402.9	404.7	402.2
157.5°	408.5	406.0	408.8	411.0	408.5
160°	414.1	412.2	414.1	416.0	413.8
162.5°	419.1	417.2	418.8	421.0	418.2
165°	423.5	421.6	422.6	424.8	422.6
167.5°	426.9	425.1	426.0	428.2	425.4
170°	429.8	427.9	428.5	430.7	427.9
172.5°	431.6	429.8	430.4	432.6	429.8
175°	433.2	431.0	431.6	433.8	430.7
177.5°	433.8	431.6	431.9	434.1	431.3
180°	432.3	432.3	432.3	432.3	432.3

(END OF REPORT)