

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: P1009266

Luminaire Tested: S122DIP-B675D330UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009266
REPORT IS A COMBINATION OF REPORTS P984507 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D330UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

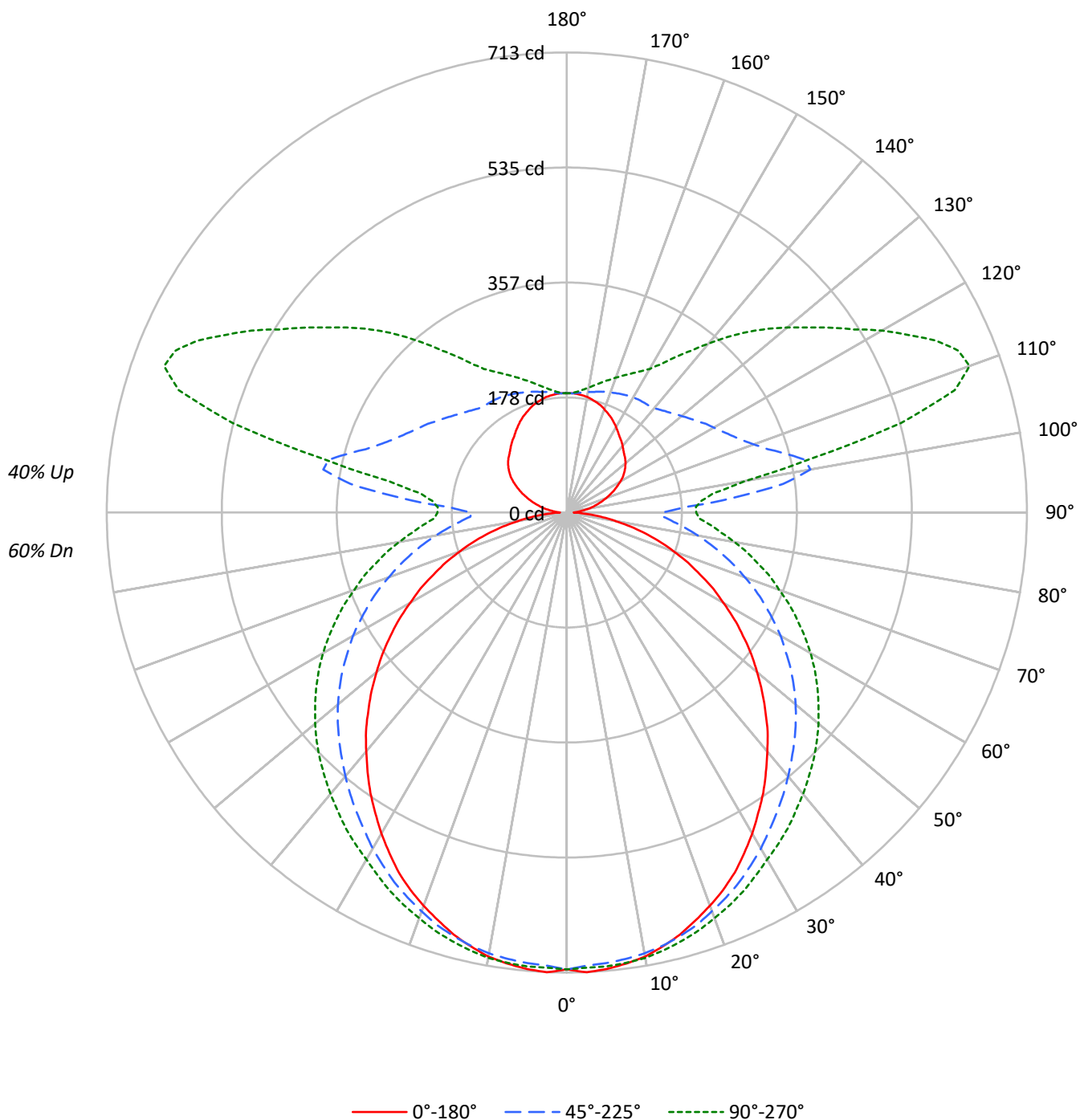
Lumens per Lamp: N/A
Luminaire Lumens: 3991.5 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	110	110	110	110	102	102	102	102	89	89	89		77	77	77		65
1	98	93	88	84	91	87	83	79	75	72	69		65	62	60		55
2	89	80	73	67	82	75	69	64	65	60	56		56	52	49		47
3	81	70	62	55	75	65	58	52	57	51	46		49	44	41		41
4	73	62	53	46	68	58	50	44	50	44	39		43	38	34		37
5	67	55	46	39	62	51	43	37	45	38	33		39	33	29		33
6	62	49	40	34	57	46	38	32	40	34	29		35	30	26		30
7	57	44	36	30	53	41	34	28	36	30	25		32	26	23		27
8	53	40	32	26	49	38	30	25	33	27	22		29	24	20		25
9	49	37	29	23	46	34	27	22	30	24	20		26	21	18		23
10	46	33	26	21	43	32	25	20	28	22	18		24	20	16		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.7
10°-20°	192.5	4.8
20°-30°	291.7	7.3
30°-40°	355.2	8.9
40°-50°	382.2	9.6
50°-60°	371.2	9.3
60°-70°	324.2	8.1
70°-80°	249.5	6.3
80°-90°	168.3	4.2
90°-100°	190.2	4.8
100°-110°	337.4	8.5
110°-120°	321.8	8.1
120°-130°	249.9	6.3
130°-140°	188.9	4.7
140°-150°	135.1	3.4
150°-160°	93.4	2.3
160°-170°	55.0	1.4
170°-180°	17.9	0.4
0°-30°	551.4	13.8
0°-40°	906.6	22.7
0°-60°	1660.0	41.6
0°-90°	2402.0	60.2
90°-120°	849.4	21.3
90°-150°	1423.2	35.7
90°-180°	1590.0	39.8
0°-180°	3991.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	11	75	148	188	200	8
95°	21	87	257	210	210	19
105°	48	100	352	595	536	52
115°	80	112	282	547	631	79
125°	109	128	247	431	499	97
135°	126	150	221	342	395	98
145°	143	164	208	265	294	90
155°	162	175	202	229	238	75
165°	177	182	194	205	209	50
175°	184	185	186	188	188	18
180°	185	185	185	185	185	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	10.7	74.6	147.6	188.0	200.5
92.5°	14.5	80.4	180.9	191.6	200.3
95°	20.6	86.9	257.3	209.6	209.8
97.5°	25.7	91.6	337.9	254.4	229.0
100°	34.6	94.6	383.3	350.8	279.1
102.5°	41.7	97.6	377.9	487.7	391.7
105°	48.5	100.3	351.6	594.8	536.0
107.5°	57.0	103.0	326.6	628.4	630.5
110°	64.5	105.8	308.4	613.4	664.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	72.3	109.4	293.3	583.4	656.3
115°	80.5	111.9	281.9	547.1	630.7
117.5°	88.0	115.4	271.9	513.0	596.1
120°	95.8	118.8	263.2	480.8	563.8
122.5°	103.3	123.4	255.7	455.0	528.2
125°	108.7	128.2	246.7	430.9	499.3
127.5°	114.0	133.8	239.4	408.3	470.8
130°	118.7	139.6	232.6	386.6	445.9
132.5°	122.9	145.2	226.1	364.2	421.3
135°	126.1	150.2	220.6	342.4	395.4
137.5°	130.0	154.5	215.5	320.3	369.0
140°	134.6	157.4	211.0	300.0	341.9
142.5°	139.2	160.6	208.9	281.1	315.9
145°	142.8	164.2	208.2	264.8	294.2
147.5°	147.8	167.0	207.2	250.4	273.1
150°	152.8	169.9	206.1	241.6	256.9
152.5°	157.8	172.7	204.3	235.0	246.6
155°	162.4	175.4	202.2	228.6	237.7
157.5°	166.3	177.5	200.1	222.6	229.9
160°	170.2	179.6	197.9	216.6	222.4
162.5°	174.1	181.2	196.2	210.9	215.3
165°	177.0	182.3	193.7	205.4	208.6
167.5°	179.4	183.4	191.5	200.4	202.2
170°	181.9	183.9	189.8	195.8	196.5
172.5°	183.4	184.4	187.6	191.7	191.9
175°	184.4	184.6	186.2	188.5	188.0
177.5°	185.1	184.8	184.8	186.2	185.1
180°	184.8	184.8	184.8	184.8	184.8

(END OF REPORT)