

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: P1009514

Luminaire Tested: S122DIP-B865D330UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009514
REPORT IS A COMBINATION OF REPORTS P984833 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D330UB50-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

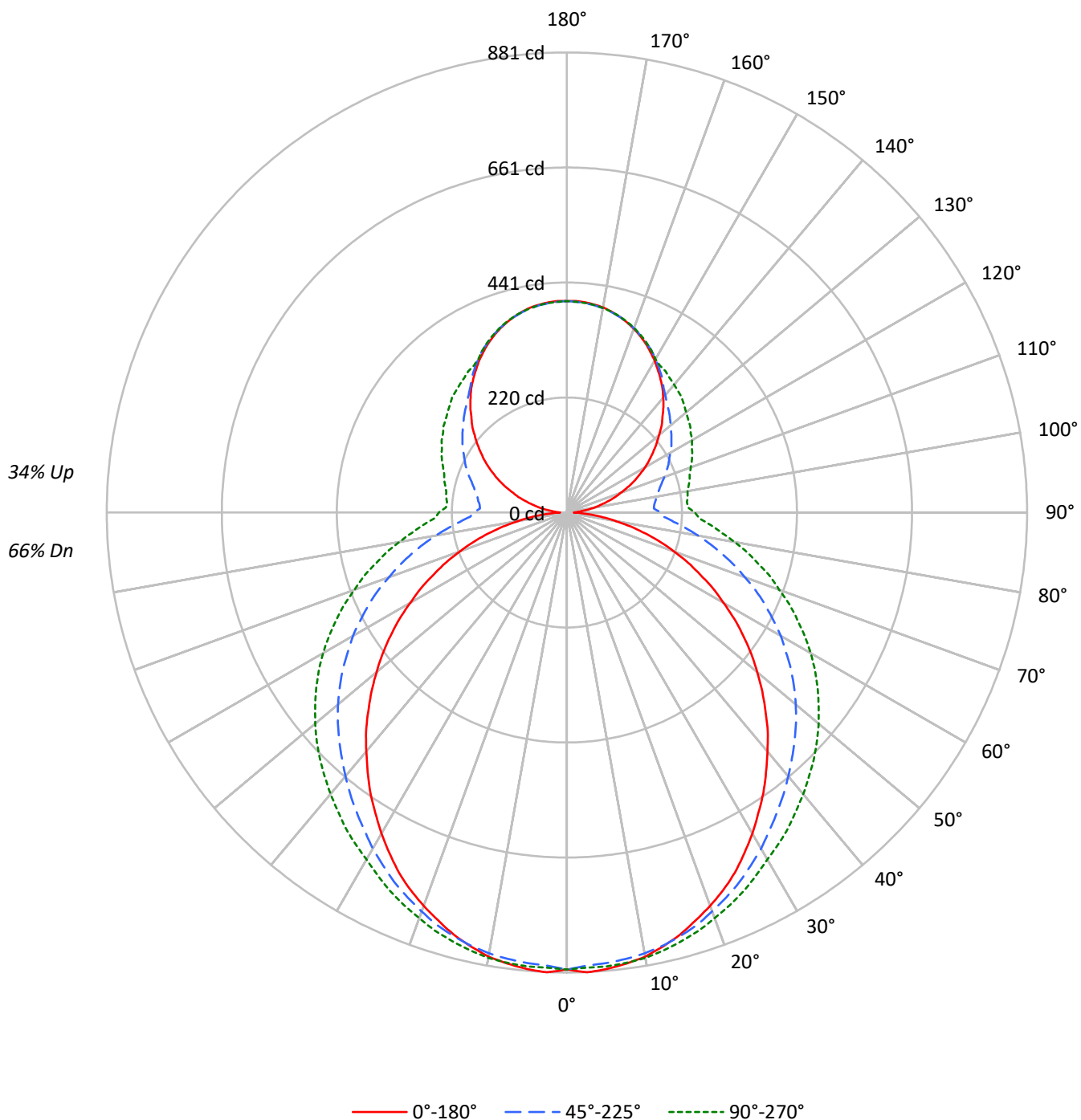
Lumens per Lamp: N/A
Luminaire Lumens: 4472.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	30	10
RCR																	
0	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71
1	99	94	89	85	93	89	84	81	78	75	72	69	66	64	60	58	56
2	90	81	74	68	84	76	70	65	67	62	58	59	55	52	51	48	46
3	81	71	62	56	76	67	59	53	59	53	48	52	47	43	45	41	38
4	74	62	53	47	69	59	51	45	52	45	40	46	40	36	40	36	32
5	68	55	46	40	64	52	44	38	46	40	35	41	35	31	36	31	28
6	63	49	41	34	59	47	39	33	42	35	30	37	31	27	32	28	24
7	58	45	36	30	54	42	34	29	38	31	26	33	28	24	29	25	21
8	54	41	32	26	50	38	31	25	34	28	23	31	25	21	27	22	19
9	50	37	29	24	47	35	28	23	31	25	21	28	23	19	25	20	17
10	47	34	26	21	44	32	25	20	29	23	19	26	21	17	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13852	13852	13852
5°	13914	13261	13185
10°	13822	12801	12614
15°	13625	12327	12029
20°	13380	11827	11473
25°	13136	11349	10969
30°	12796	10864	10469
35°	12453	10396	10102
40°	12089	9992	9738
45°	11743	9625	9421
50°	11373	9287	9106
55°	10984	8927	8787
60°	10505	8554	8452
65°	10007	8122	8066
70°	9445	7660	7651
75°	8727	7199	7258
80°	7593	6717	6851
85°	6455	6266	6502

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11743 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	1.9
10°-20°	237.9	5.3
20°-30°	360.5	8.1
30°-40°	439.0	9.8
40°-50°	472.3	10.6
50°-60°	458.7	10.3
60°-70°	400.6	9.0
70°-80°	308.3	6.9
80°-90°	207.7	4.6
90°-100°	167.5	3.7
100°-110°	183.7	4.1
110°-120°	204.9	4.6
120°-130°	217.4	4.9
130°-140°	217.2	4.9
140°-150°	199.9	4.5
150°-160°	165.4	3.7
160°-170°	109.7	2.5
170°-180°	38.3	0.9
0°-30°	681.4	15.2
0°-40°	1120.4	25.1
0°-60°	2051.4	45.9
0°-90°	2967.9	66.4
90°-120°	556.1	12.4
90°-150°	1190.6	26.6
90°-180°	1504.0	33.6
0°-180°	4472.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	875	875	875	875	875	
5°	878	874	866	874	872	83
15°	837	840	840	851	850	236
25°	761	770	781	796	800	350
35°	656	677	701	729	738	410
45°	538	572	616	656	668	415
55°	412	458	524	569	586	369
65°	282	344	418	470	487	280
75°	156	227	308	363	379	165
85°	46	124	206	259	276	48
90°	13	91	179	229	245	10
95°	28	91	168	216	230	28
105°	80	118	184	229	243	85
115°	142	158	214	252	265	140
125°	201	204	244	277	288	180
135°	259	262	276	302	311	200
145°	312	315	317	325	330	195
155°	357	358	359	361	360	164
165°	388	388	388	390	389	110
175°	404	403	402	405	403	38
180°	405	405	405	405	405	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.1	875.1	875.1	875.1	875.1
2.5°	881.4	877.6	868.7	875.1	872.5
5°	877.6	873.8	866.2	873.8	872.5
7.5°	871.3	868.7	862.4	871.3	870.0
10°	863.7	861.1	857.3	867.5	866.2
12.5°	851.0	852.3	849.7	859.9	858.6
15°	837.0	839.6	839.6	851.0	849.7
17.5°	819.3	824.4	828.2	839.6	839.6
20°	801.5	807.9	812.9	826.9	826.9
22.5°	782.5	790.1	797.7	811.7	814.2
25°	760.9	769.8	781.2	796.5	800.3
27.5°	735.6	749.5	762.2	781.2	783.8
30°	710.2	726.7	743.2	763.5	767.3
32.5°	682.3	701.3	721.6	745.7	753.3
35°	655.7	677.2	701.3	729.2	738.1
37.5°	626.5	650.6	681.0	711.5	720.4
40°	597.3	625.2	659.5	692.5	703.9
42.5°	569.4	597.3	637.9	674.7	686.1
45°	537.7	572.0	616.4	655.7	668.4
47.5°	507.3	544.1	594.8	635.4	649.3
50°	475.6	514.9	572.0	615.1	629.0
52.5°	445.1	487.0	547.9	592.3	607.5
55°	412.2	457.8	523.8	569.4	585.9
57.5°	380.5	431.2	497.1	546.6	563.1
60°	346.2	400.8	473.1	521.2	539.0
62.5°	315.8	372.9	445.1	497.1	513.6
65°	281.5	343.7	418.5	470.5	487.0
67.5°	251.1	315.8	391.9	443.9	461.6
70°	218.1	284.1	362.7	417.2	432.5
72.5°	187.7	256.2	336.1	389.3	408.4
75°	156.0	227.0	308.2	362.7	379.2
77.5°	125.6	199.1	281.5	336.1	353.8
80°	95.1	172.5	254.9	308.2	325.9
82.5°	69.8	145.8	229.6	282.8	299.3
85°	45.7	124.3	205.5	258.7	276.5
87.5°	27.9	104.0	185.2	237.2	253.6
90°	13.0	90.6	179.4	229.4	245.0
92.5°	18.9	88.8	166.6	216.4	231.6
95°	27.9	91.0	167.7	215.9	230.5
97.5°	38.6	96.2	171.2	218.1	233.3
100°	52.3	101.9	173.9	220.8	234.5
102.5°	65.3	109.3	179.1	225.1	238.8
105°	79.8	117.6	184.3	229.3	243.2
107.5°	95.5	127.3	190.7	234.2	246.5
110°	109.3	136.6	198.8	239.4	252.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	125.7	148.0	206.0	245.6	258.8
115°	141.8	157.7	214.1	251.8	264.8
117.5°	156.5	169.4	220.9	258.0	269.6
120°	172.6	180.4	228.4	263.9	276.8
122.5°	187.3	192.0	237.2	270.3	281.2
125°	201.3	204.4	244.0	277.3	288.3
127.5°	216.4	218.9	251.8	282.1	292.5
130°	230.4	233.6	259.5	289.2	298.1
132.5°	246.1	248.3	267.6	295.1	304.2
135°	258.6	262.3	275.7	302.0	311.0
137.5°	273.6	276.7	283.6	307.4	314.9
140°	286.9	288.7	292.9	313.2	319.4
142.5°	300.6	302.3	303.4	318.9	323.9
145°	312.3	314.6	316.7	324.6	329.7
147.5°	323.9	326.9	328.3	330.3	332.7
150°	335.8	337.9	339.2	340.3	339.2
152.5°	346.4	348.5	350.2	351.5	350.2
155°	357.0	358.0	359.1	360.8	359.7
157.5°	366.2	366.9	367.6	370.0	368.3
160°	374.4	375.1	375.5	377.5	376.1
162.5°	381.9	381.9	382.3	384.7	383.0
165°	388.4	388.1	388.1	390.5	388.8
167.5°	394.2	393.2	393.2	395.6	393.9
170°	398.7	397.7	397.3	399.7	397.7
172.5°	401.8	400.7	400.4	402.8	400.7
175°	404.2	403.1	402.4	404.8	402.8
177.5°	405.5	404.5	403.8	405.9	403.8
180°	404.8	404.8	404.8	404.8	404.8

(END OF REPORT)