

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: P1009604

Luminaire Tested: S122DIP-B865D725UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009604
REPORT IS A COMBINATION OF REPORTS P984953 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D725UB50-4F0-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

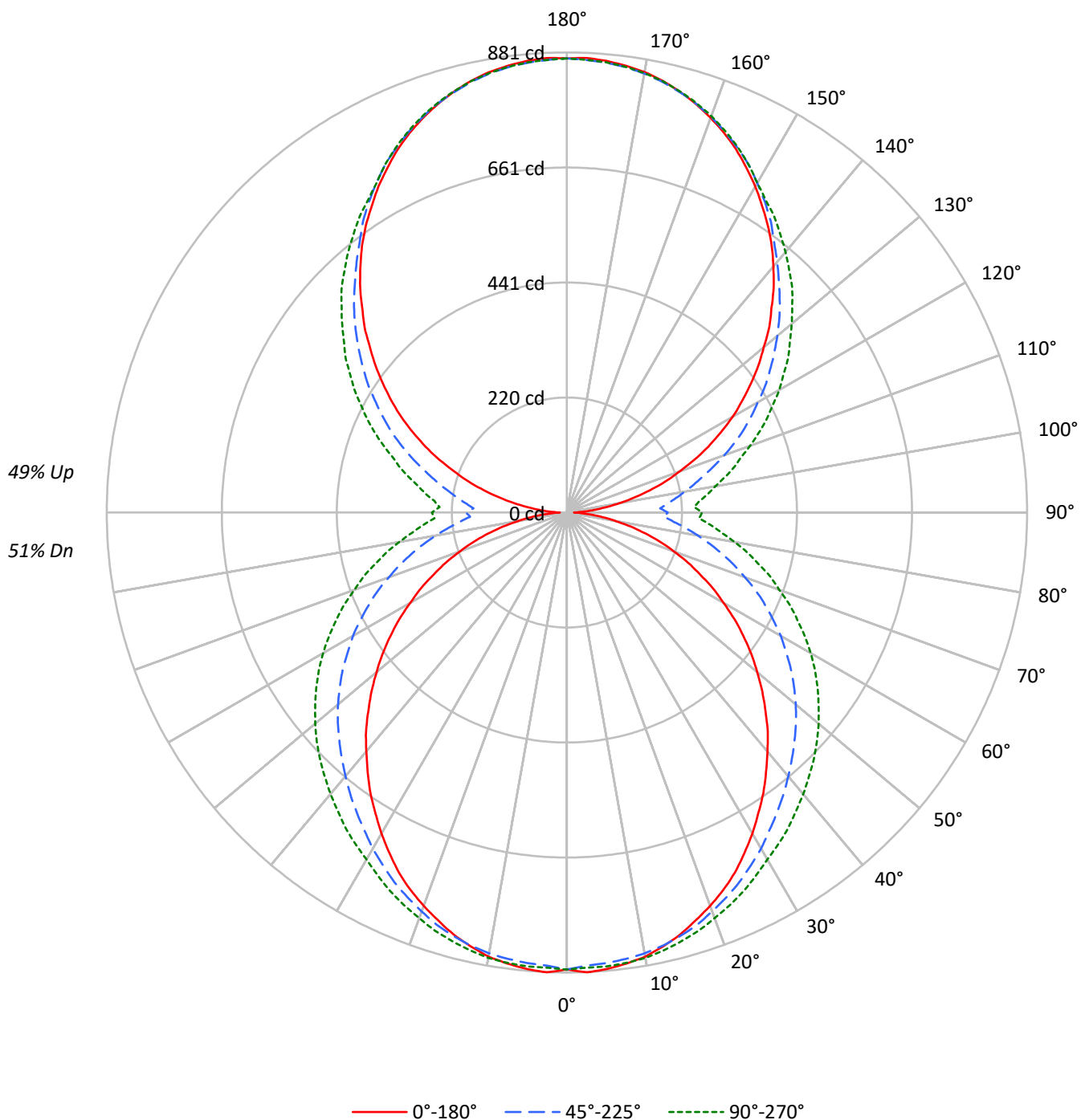
Lumens per Lamp: N/A
Luminaire Lumens: 5773.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	97	92	87	83	89	85	81	77	71	69	66	59	57	55	48	47	45
2	87	79	72	67	80	73	67	62	62	57	53	51	48	45	42	39	37
3	79	69	61	55	73	64	57	51	54	49	44	45	41	37	36	33	31
4	72	61	52	46	66	56	49	43	48	42	37	40	35	32	32	29	26
5	66	54	45	39	61	50	42	37	42	36	32	35	31	27	29	25	23
6	61	48	40	34	56	45	37	32	38	32	28	32	27	24	26	22	20
7	56	43	35	29	52	40	33	28	34	28	24	29	24	21	24	20	17
8	52	39	31	26	48	37	29	24	31	25	21	26	22	18	22	18	15
9	48	36	28	23	45	33	26	22	29	23	19	24	20	16	20	16	14
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	19	15	13

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	1.4
10°-20°	237.9	4.1
20°-30°	360.5	6.2
30°-40°	439.0	7.6
40°-50°	472.3	8.2
50°-60°	458.7	7.9
60°-70°	400.6	6.9
70°-80°	308.3	5.3
80°-90°	209.0	3.6
90°-100°	196.3	3.4
100°-110°	275.1	4.8
110°-120°	361.4	6.3
120°-130°	423.2	7.3
130°-140°	448.1	7.8
140°-150°	426.4	7.4
150°-160°	355.4	6.2
160°-170°	235.7	4.1
170°-180°	82.4	1.4
0°-30°	681.4	11.8
0°-40°	1120.4	19.4
0°-60°	2051.4	35.5
0°-90°	2969.2	51.4
90°-120°	832.7	14.4
90°-150°	2130.3	36.9
90°-180°	2804.0	48.6
0°-180°	5773.0	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	96	193	242	258	11
95°	48	115	193	241	255	51
105°	164	203	271	316	330	174
115°	299	317	373	410	422	295
125°	430	436	475	507	517	384
135°	554	562	576	602	610	428
145°	671	676	680	689	692	419
155°	767	769	771	775	773	353
165°	834	834	834	839	835	235
175°	868	866	865	870	865	82
180°	870	870	870	870	870	

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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°	13.4	95.7	193.1	242.3	258.4
92.5°	27.5	100.6	178.8	229.0	244.2
95°	48.3	115.3	192.8	241.0	254.8
97.5°	72.8	133.9	210.4	257.3	272.5
100°	102.1	154.9	228.1	275.0	288.2
102.5°	131.6	177.9	249.3	295.7	309.0
105°	164.1	203.1	270.6	316.4	330.3
107.5°	197.9	231.3	294.7	338.5	348.9
110°	228.9	258.7	320.9	361.5	373.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.2	288.9	346.4	384.8	397.3
115°	298.7	317.0	372.6	409.9	421.7
117.5°	331.9	347.9	397.5	433.4	443.8
120°	366.4	377.3	422.2	457.7	469.5
122.5°	397.9	406.6	449.8	481.8	491.8
125°	429.6	436.3	474.6	506.7	517.4
127.5°	461.9	468.8	500.1	528.8	538.0
130°	492.0	500.4	525.5	554.4	561.7
132.5°	525.8	531.9	551.7	577.2	585.1
135°	553.9	562.0	576.2	602.1	610.0
137.5°	586.2	592.8	600.6	624.0	629.9
140°	614.9	620.2	626.3	646.6	651.3
142.5°	644.2	649.5	651.7	667.7	671.1
145°	670.8	675.9	680.4	688.7	692.1
147.5°	695.8	702.4	705.3	708.1	708.9
150°	721.4	725.9	728.8	731.0	728.8
152.5°	744.2	748.6	752.3	755.2	752.3
155°	767.0	769.2	771.4	775.0	772.8
157.5°	786.8	788.2	789.7	794.8	791.2
160°	804.4	805.9	806.6	811.0	808.1
162.5°	820.5	820.5	821.3	826.4	822.7
165°	834.5	833.7	833.7	838.9	835.2
167.5°	847.0	844.7	844.7	849.9	846.2
170°	856.5	854.3	853.6	858.7	854.3
172.5°	863.1	860.9	860.2	865.3	860.9
175°	868.2	866.0	864.6	869.7	865.3
177.5°	871.2	869.0	867.5	871.9	867.5
180°	869.7	869.7	869.7	869.7	869.7

(END OF REPORT)