

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: P1009649

Luminaire Tested: S122DIP-B865D925UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009649
REPORT IS A COMBINATION OF REPORTS P985013 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D925UB50-4F0-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

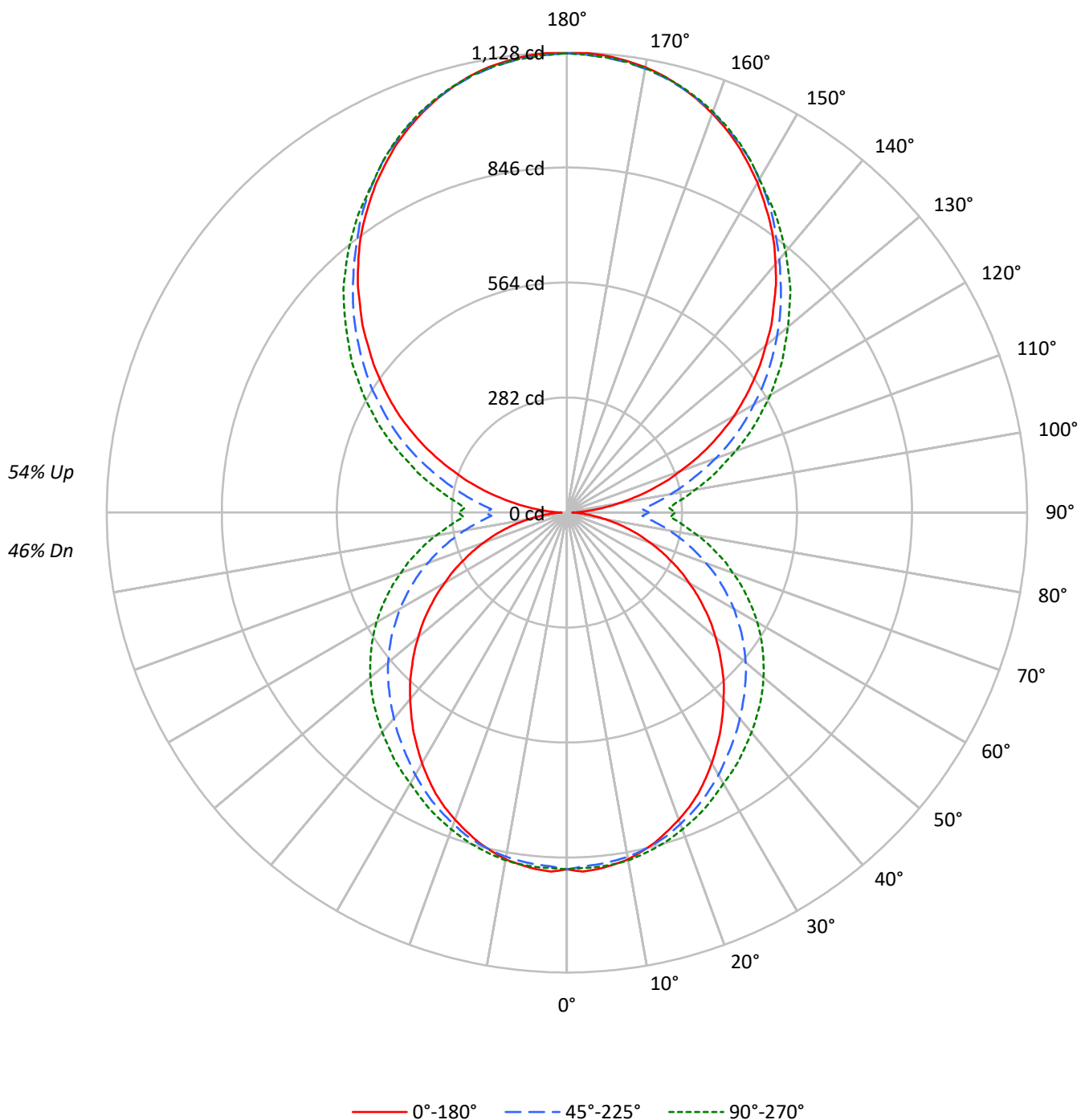
Lumens per Lamp: N/A
Luminaire Lumens: 6490.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	95	91	86	82	87	83	79	76	69	66	64	56	54	52	44	43	41
2	86	78	72	66	79	72	66	61	60	55	52	48	45	42	38	36	34
3	78	68	61	54	71	63	56	50	52	47	43	42	38	35	33	30	28
4	72	60	52	46	65	55	48	42	46	40	36	37	33	30	29	26	24
5	65	53	45	39	60	49	42	36	41	35	31	33	29	26	26	23	21
6	60	48	39	33	55	44	36	31	37	31	27	30	26	22	24	20	18
7	56	43	35	29	51	40	32	27	33	27	23	27	23	19	22	18	16
8	51	39	31	25	47	36	29	24	30	25	21	25	20	17	20	17	14
9	48	35	28	23	44	33	26	21	28	22	18	23	18	15	18	15	13
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	14	11

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	1.3
10°-20°	237.9	3.7
20°-30°	360.5	5.6
30°-40°	439.0	6.8
40°-50°	472.3	7.3
50°-60°	458.7	7.1
60°-70°	400.6	6.2
70°-80°	308.3	4.8
80°-90°	209.7	3.2
90°-100°	212.1	3.3
100°-110°	325.5	5.0
110°-120°	447.6	6.9
120°-130°	536.5	8.3
130°-140°	575.4	8.9
140°-150°	551.2	8.5
150°-160°	460.1	7.1
160°-170°	305.1	4.7
170°-180°	106.6	1.6
0°-30°	681.4	10.5
0°-40°	1120.4	17.3
0°-60°	2051.4	31.6
0°-90°	2970.0	45.8
90°-120°	985.1	15.2
90°-150°	2648.2	40.8
90°-180°	3520.0	54.2
0°-180°	6490.0	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°	14	99	201	250	266	12
95°	60	129	207	255	268	63
105°	211	250	318	364	378	223
115°	385	405	460	497	508	381
125°	556	564	602	633	644	497
135°	717	727	742	767	775	554
145°	868	875	881	889	892	543
155°	993	996	999	1003	1000	457
165°	1080	1079	1079	1086	1081	305
175°	1124	1121	1119	1126	1120	107
180°	1126	1126	1126	1126	1126	

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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°	13.7	98.6	200.7	249.5	265.7
92.5°	32.3	107.1	185.5	235.9	251.1
95°	59.5	128.7	206.6	254.8	268.2
97.5°	91.6	154.6	232.0	278.9	294.1
100°	129.6	184.1	257.9	304.8	317.9
102.5°	168.2	215.8	288.0	334.6	347.7
105°	210.6	250.2	318.1	364.4	378.3
107.5°	254.3	288.6	352.0	396.0	405.3
110°	294.9	325.9	388.1	428.7	439.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	340.5	366.5	423.8	461.6	473.6
115°	385.1	404.8	460.0	497.0	508.1
117.5°	428.5	446.3	494.8	530.0	539.8
120°	473.2	485.9	529.0	564.5	575.6
122.5°	514.0	524.8	567.0	598.3	607.9
125°	555.5	564.0	601.8	633.2	643.7
127.5°	597.3	606.5	636.9	664.8	673.4
130°	636.2	647.4	672.1	700.6	707.0
132.5°	679.9	688.2	708.2	732.6	739.9
135°	716.7	727.2	741.8	767.4	774.7
137.5°	758.5	767.1	775.3	798.5	803.5
140°	795.6	802.9	810.1	830.4	834.2
142.5°	833.6	840.9	843.7	859.9	862.5
145°	868.4	875.1	880.8	889.3	891.9
147.5°	900.7	909.3	913.1	916.3	916.3
150°	934.0	939.7	943.5	946.3	943.5
152.5°	963.4	969.1	973.9	977.7	973.9
155°	992.9	995.7	998.6	1003.3	1000.5
157.5°	1018.5	1020.4	1022.3	1029.0	1024.2
160°	1041.3	1043.2	1044.2	1049.9	1046.1
162.5°	1062.2	1062.2	1063.2	1069.8	1065.1
165°	1080.3	1079.3	1079.3	1086.0	1081.2
167.5°	1096.4	1093.6	1093.6	1100.2	1095.5
170°	1108.8	1105.9	1105.0	1111.6	1105.9
172.5°	1117.3	1114.5	1113.5	1120.2	1114.5
175°	1124.0	1121.1	1119.2	1125.9	1120.2
177.5°	1127.8	1124.9	1123.0	1128.7	1123.0
180°	1125.9	1125.9	1125.9	1125.9	1125.9

(END OF REPORT)