

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: P1009550

Luminaire Tested: S122DIP-B865D530UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009550
REPORT IS A COMBINATION OF REPORTS P984884 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D530UB40-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

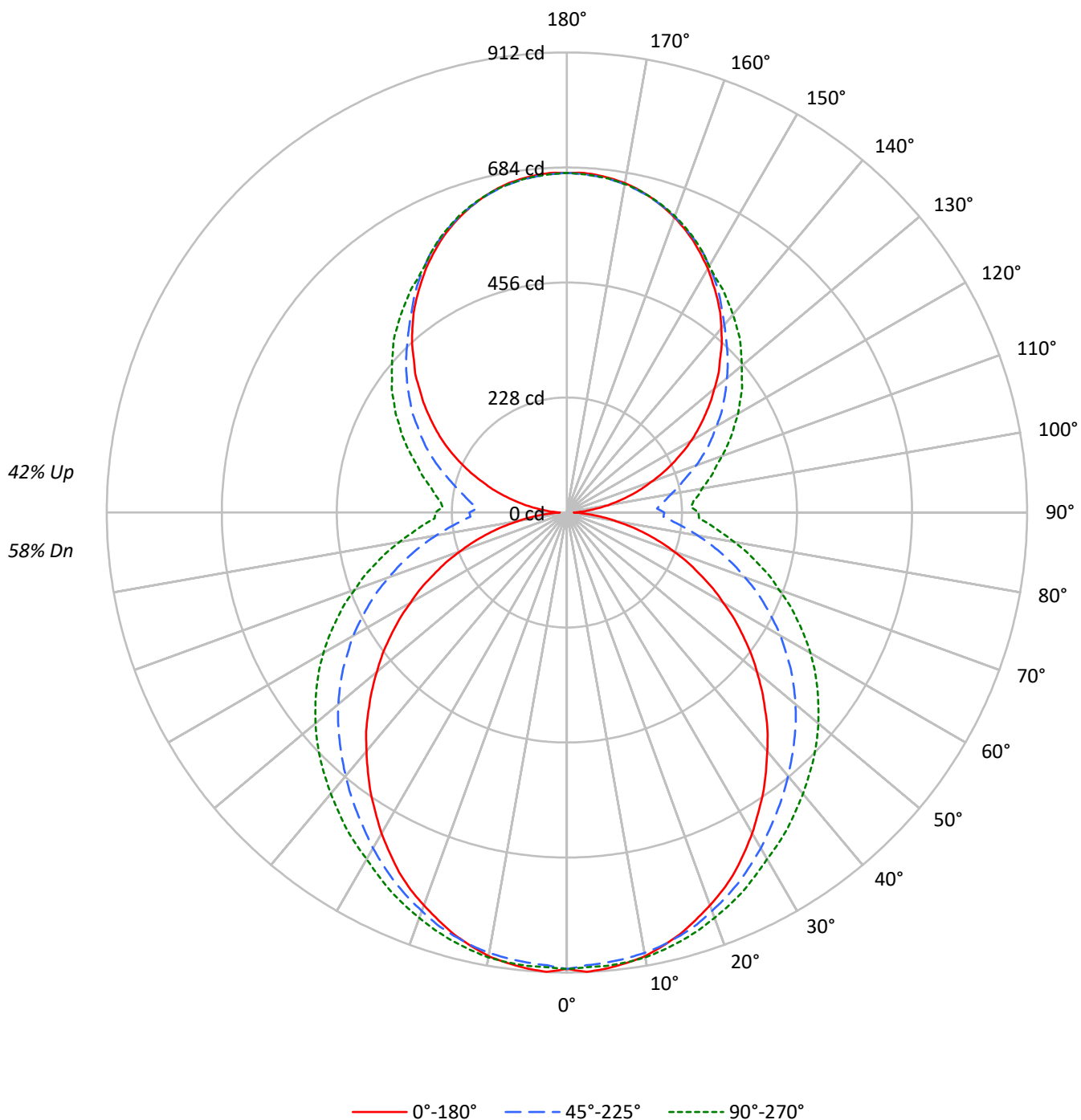
Lumens per Lamp: N/A
Luminaire Lumens: 5337.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 62.2
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	30	10
RCR																	
0	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63
1	98	93	88	84	91	86	82	79	74	71	68	63	61	59	53	51	50
2	88	80	73	67	82	74	68	63	64	59	55	54	51	48	46	43	41
3	80	70	62	55	74	65	58	52	56	50	46	48	43	40	40	37	34
4	73	61	53	46	68	57	50	44	49	43	38	42	37	34	35	32	29
5	67	54	46	39	62	51	43	37	44	38	33	38	33	29	32	28	25
6	62	49	40	34	57	46	38	32	39	33	28	34	29	25	29	25	22
7	57	44	35	30	53	41	33	28	36	30	25	31	26	22	26	22	19
8	53	40	32	26	49	37	30	25	33	26	22	28	23	20	24	20	17
9	49	36	28	23	46	34	27	22	30	24	20	26	21	17	22	18	15
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14326	14326	14326
5°	14390	13714	13636
10°	14294	13239	13046
15°	14091	12747	12439
20°	13837	12231	11864
25°	13585	11737	11343
30°	13234	11236	10827
35°	12878	10751	10447
40°	12502	10333	10070
45°	12145	9953	9742
50°	11761	9603	9417
55°	11357	9232	9087
60°	10863	8845	8741
65°	10352	8400	8341
70°	9770	7922	7911
75°	9023	7444	7505
80°	7856	6946	7087
85°	6667	6480	6723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12145 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.6
10°-20°	246.0	4.6
20°-30°	372.8	7.0
30°-40°	454.0	8.5
40°-50°	488.4	9.2
50°-60°	474.4	8.9
60°-70°	414.3	7.8
70°-80°	318.8	6.0
80°-90°	215.5	4.0
90°-100°	189.0	3.5
100°-110°	240.0	4.5
110°-120°	297.5	5.6
120°-130°	337.5	6.3
130°-140°	351.0	6.6
140°-150°	330.7	6.2
150°-160°	275.1	5.2
160°-170°	182.4	3.4
170°-180°	63.8	1.2
0°-30°	704.6	13.2
0°-40°	1158.6	21.7
0°-60°	2121.4	39.7
0°-90°	3070.0	57.5
90°-120°	726.5	13.6
90°-150°	1745.7	32.7
90°-180°	2267.0	42.5
0°-180°	5337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	908	904	896	904	902	86
15°	866	868	868	880	879	244
25°	787	796	808	824	828	362
35°	678	700	725	754	763	424
45°	556	592	637	678	691	429
55°	426	474	542	589	606	381
65°	291	355	433	487	504	289
75°	161	235	319	375	392	171
85°	47	128	212	268	286	50
90°	14	97	193	244	261	11
95°	40	107	187	237	252	41
105°	129	168	238	285	299	136
115°	232	250	308	347	360	229
125°	333	338	379	412	424	298
135°	429	435	450	477	485	332
145°	519	523	527	535	539	325
155°	594	595	597	600	598	273
165°	646	645	645	649	646	182
175°	672	670	669	673	670	64
180°	673	673	673	673	673	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.0	905.0	905.0	905.0	905.0
2.5°	911.5	907.6	898.4	905.0	902.3
5°	907.6	903.6	895.8	903.6	902.3
7.5°	901.0	898.4	891.8	901.0	899.7
10°	893.2	890.5	886.6	897.1	895.8
12.5°	880.0	881.3	878.7	889.2	887.9
15°	865.6	868.2	868.2	880.0	878.7
17.5°	847.2	852.5	856.4	868.2	868.2
20°	828.9	835.4	840.7	855.1	855.1
22.5°	809.2	817.1	825.0	839.4	842.0
25°	786.9	796.1	807.9	823.6	827.6
27.5°	760.7	775.1	788.2	807.9	810.5
30°	734.5	751.5	768.6	789.5	793.5
32.5°	705.6	725.3	746.3	771.2	779.1
35°	678.1	700.4	725.3	754.1	763.3
37.5°	647.9	672.8	704.3	735.8	745.0
40°	617.7	646.6	682.0	716.1	727.9
42.5°	588.9	617.7	659.7	697.7	709.5
45°	556.1	591.5	637.4	678.1	691.2
47.5°	524.6	562.6	615.1	657.1	671.5
50°	491.8	532.5	591.5	636.1	650.5
52.5°	460.3	503.6	566.6	612.5	628.2
55°	426.2	473.5	541.7	588.9	605.9
57.5°	393.5	445.9	514.1	565.3	582.3
60°	358.0	414.4	489.2	539.0	557.4
62.5°	326.6	385.6	460.3	514.1	531.2
65°	291.2	355.4	432.8	486.6	503.6
67.5°	259.7	326.6	405.3	459.0	477.4
70°	225.6	293.8	375.1	431.5	447.2
72.5°	194.1	264.9	347.6	402.6	422.3
75°	161.3	234.8	318.7	375.1	392.1
77.5°	129.8	205.9	291.2	347.6	365.9
80°	98.4	178.4	263.6	318.7	337.1
82.5°	72.1	150.8	237.4	292.5	309.5
85°	47.2	128.5	212.5	267.6	285.9
87.5°	28.9	107.5	191.5	245.3	262.3
90°	13.7	96.6	193.0	244.3	260.6
92.5°	24.3	98.3	178.9	230.7	246.4
95°	40.0	107.3	187.2	237.1	251.6
97.5°	58.6	120.1	198.4	247.0	262.7
100°	81.3	134.4	209.6	258.1	271.9
102.5°	103.9	150.5	223.7	271.5	285.3
105°	128.7	168.4	237.8	284.8	299.2
107.5°	154.9	188.5	254.1	299.3	310.9
110°	178.5	208.2	272.4	314.4	327.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.7	230.1	290.0	330.2	343.5
115°	232.4	250.3	308.2	346.9	359.7
117.5°	257.8	272.9	325.1	362.8	374.2
120°	284.5	294.4	342.2	379.0	391.7
122.5°	309.0	315.9	361.7	395.4	406.1
125°	333.2	338.3	378.6	412.3	423.6
127.5°	358.2	363.2	396.3	426.8	436.9
130°	381.5	387.6	414.1	444.3	452.6
132.5°	407.6	412.0	432.3	459.6	468.3
135°	429.1	435.3	449.6	476.6	485.4
137.5°	454.1	459.2	466.9	491.2	498.2
140°	476.2	480.0	485.5	506.5	512.1
142.5°	498.9	502.8	504.5	520.7	525.1
145°	519.2	523.2	526.6	535.1	539.3
147.5°	538.5	543.7	545.9	548.4	550.0
150°	558.4	561.8	564.1	565.8	564.1
152.5°	576.0	579.4	582.3	584.6	582.3
155°	593.6	595.4	597.1	599.9	598.2
157.5°	609.0	610.1	611.3	615.2	612.4
160°	622.6	623.8	624.3	627.7	625.5
162.5°	635.1	635.1	635.7	639.7	636.8
165°	645.9	645.3	645.3	649.3	646.5
167.5°	655.6	653.9	653.9	657.8	655.0
170°	663.0	661.3	660.7	664.7	661.3
172.5°	668.1	666.4	665.8	669.8	666.4
175°	672.0	670.3	669.2	673.2	669.8
177.5°	674.3	672.6	671.5	674.9	671.5
180°	673.2	673.2	673.2	673.2	673.2

(END OF REPORT)