

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: P1008107

Luminaire Tested: S122DIP-B485D530UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008107
REPORT IS A COMBINATION OF REPORTS P984255 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D530UB2750-4F0-XX-W2A-D_4000K
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

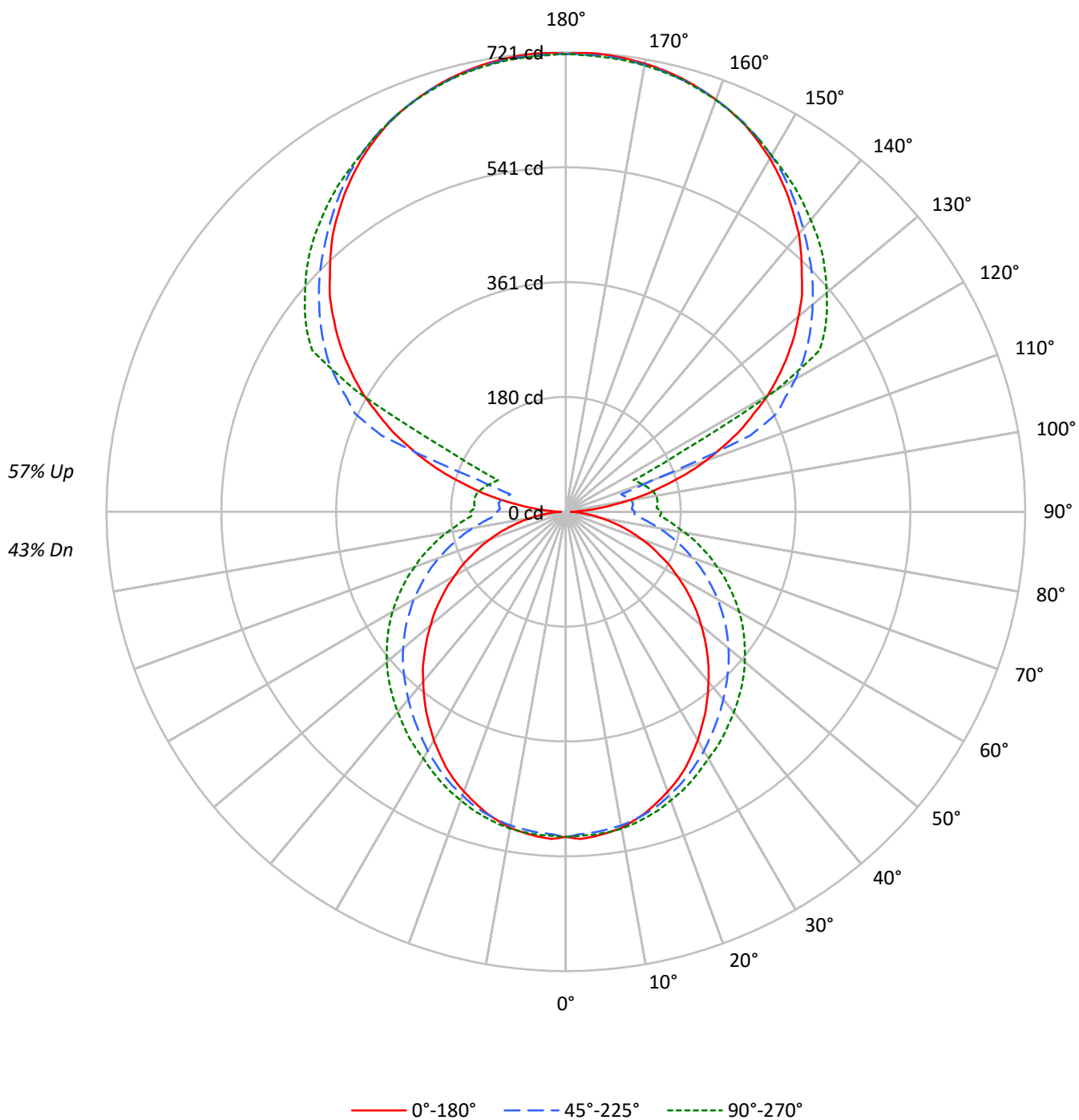
Lumens per Lamp: N/A
Luminaire Lumens: 4055.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49
1	95	90	86	82	86	82	78	75	68	65	62	54	52	50	42	40	39
2	86	78	71	66	78	71	65	61	58	54	51	47	44	41	36	34	32
3	78	68	60	54	71	62	55	50	51	46	42	41	37	34	31	29	27
4	71	60	52	45	64	55	48	42	45	40	35	36	32	29	28	25	23
5	65	53	45	39	59	49	41	36	40	34	30	32	28	25	25	22	19
6	60	47	39	33	54	44	36	31	36	30	26	29	25	21	22	19	17
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	20	17	15
8	51	39	31	25	46	36	28	24	30	24	20	24	20	17	19	16	13
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8078	8078	8078
5°	8113	7733	7689
10°	8059	7464	7356
15°	7946	7188	7014
20°	7802	6896	6690
25°	7660	6618	6395
30°	7461	6336	6104
35°	7260	6063	5891
40°	7049	5826	5678
45°	6849	5612	5493
50°	6631	5415	5310
55°	6403	5205	5125
60°	6127	4986	4929
65°	5837	4736	4704
70°	5509	4467	4462
75°	5091	4198	4232
80°	4431	3916	3996
85°	3757	3653	3791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	1.2
10°-20°	138.7	3.4
20°-30°	210.2	5.2
30°-40°	256.0	6.3
40°-50°	275.4	6.8
50°-60°	267.5	6.6
60°-70°	233.6	5.8
70°-80°	179.8	4.4
80°-90°	121.7	3.0
90°-100°	106.8	2.6
100°-110°	149.0	3.7
110°-120°	274.3	6.8
120°-130°	410.9	10.1
130°-140°	422.1	10.4
140°-150°	385.2	9.5
150°-160°	308.4	7.6
160°-170°	198.7	4.9
170°-180°	68.4	1.7
0°-30°	397.3	9.8
0°-40°	653.3	16.1
0°-60°	1196.2	29.5
0°-90°	1731.2	42.7
90°-120°	530.1	13.1
90°-150°	1748.3	43.1
90°-180°	2324.0	57.3
0°-180°	4055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	512	510	505	510	509	49
15°	488	490	490	496	496	137
25°	444	449	456	464	467	204
35°	382	395	409	425	430	239
45°	314	334	359	382	390	242
55°	240	267	305	332	342	215
65°	164	200	244	274	284	163
75°	91	132	180	212	221	96
85°	27	72	120	151	161	28
90°	8	56	108	140	150	7
95°	40	57	105	136	144	45
105°	162	199	95	127	137	173
115°	302	319	365	147	117	297
125°	424	431	464	488	496	379
135°	524	532	544	565	570	405
145°	607	606	615	623	624	380
155°	668	664	670	673	669	308
165°	704	701	702	706	702	199
175°	720	716	718	721	716	69
180°	719	719	719	719	719	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.3	510.3	510.3	510.3	510.3
2.5°	514.0	511.7	506.6	510.3	508.8
5°	511.7	509.5	505.1	509.5	508.8
7.5°	508.0	506.6	502.9	508.0	507.3
10°	503.6	502.1	499.9	505.8	505.1
12.5°	496.2	497.0	495.5	501.4	500.7
15°	488.1	489.6	489.6	496.2	495.5
17.5°	477.7	480.7	482.9	489.6	489.6
20°	467.4	471.1	474.0	482.2	482.2
22.5°	456.3	460.7	465.2	473.3	474.8
25°	443.7	448.9	455.5	464.4	466.6
27.5°	428.9	437.1	444.4	455.5	457.0
30°	414.1	423.7	433.4	445.2	447.4
32.5°	397.9	409.0	420.8	434.8	439.3
35°	382.3	394.9	409.0	425.2	430.4
37.5°	365.3	379.4	397.1	414.9	420.0
40°	348.3	364.6	384.5	403.8	410.4
42.5°	332.0	348.3	372.0	393.4	400.1
45°	313.6	333.5	359.4	382.3	389.7
47.5°	295.8	317.3	346.8	370.5	378.6
50°	277.3	300.2	333.5	358.7	366.8
52.5°	259.6	284.0	319.5	345.4	354.2
55°	240.3	267.0	305.4	332.0	341.7
57.5°	221.9	251.4	289.9	318.7	328.3
60°	201.9	233.7	275.8	303.9	314.3
62.5°	184.1	217.4	259.6	289.9	299.5
65°	164.2	200.4	244.0	274.4	284.0
67.5°	146.4	184.1	228.5	258.8	269.2
70°	127.2	165.7	211.5	243.3	252.2
72.5°	109.4	149.4	196.0	227.0	238.1
75°	91.0	132.4	179.7	211.5	221.1
77.5°	73.2	116.1	164.2	196.0	206.3
80°	55.5	100.6	148.6	179.7	190.1
82.5°	40.7	85.0	133.9	164.9	174.5
85°	26.6	72.5	119.8	150.9	161.2
87.5°	16.3	60.6	108.0	138.3	147.9
90°	7.9	56.5	108.0	140.2	150.1
92.5°	19.7	56.8	103.5	133.3	142.7
95°	39.7	57.3	105.3	136.0	144.4
97.5°	66.0	55.2	106.4	135.3	144.7
100°	97.2	53.3	103.6	135.1	144.2
102.5°	130.8	154.1	99.5	131.8	141.5
105°	161.8	198.8	95.3	126.9	137.1
107.5°	198.7	229.4	91.2	122.1	132.3
110°	233.4	259.0	145.0	116.6	126.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266.6	287.8	313.0	112.5	122.2
115°	302.0	318.9	365.2	146.7	117.3
117.5°	331.9	348.2	388.1	336.0	207.1
120°	366.2	377.0	415.9	442.9	380.8
122.5°	395.3	404.4	442.1	465.2	472.4
125°	424.2	431.0	464.5	488.1	496.4
127.5°	451.3	457.8	485.6	509.3	516.5
130°	476.8	484.3	505.6	529.0	534.4
132.5°	502.8	508.7	525.5	547.2	552.7
135°	523.8	532.1	544.2	565.0	569.9
137.5°	546.7	552.9	561.8	581.1	584.8
140°	569.0	572.5	579.7	596.2	598.0
142.5°	587.8	590.7	597.5	610.5	611.6
145°	606.8	606.3	615.1	623.2	624.3
147.5°	624.0	622.4	631.3	634.6	634.8
150°	640.6	637.0	645.3	648.4	645.8
152.5°	654.7	650.5	658.3	661.4	657.8
155°	668.2	663.5	669.7	672.9	668.7
157.5°	679.1	674.9	679.6	683.3	679.1
160°	688.5	685.3	688.5	691.6	687.9
162.5°	696.8	693.7	696.3	699.9	695.2
165°	704.1	700.9	702.5	706.1	702.5
167.5°	709.8	706.7	708.2	711.9	707.2
170°	714.5	711.3	712.4	716.0	711.3
172.5°	717.6	714.5	715.5	719.1	714.5
175°	720.2	716.5	717.6	721.2	716.0
177.5°	721.2	717.6	718.1	721.7	717.1
180°	718.6	718.6	718.6	718.6	718.6

(END OF REPORT)