

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: P1009106

Luminaire Tested: S122DIP-B485D530UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009106
REPORT IS A COMBINATION OF REPORTS P984284 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D530UB40-4F0-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

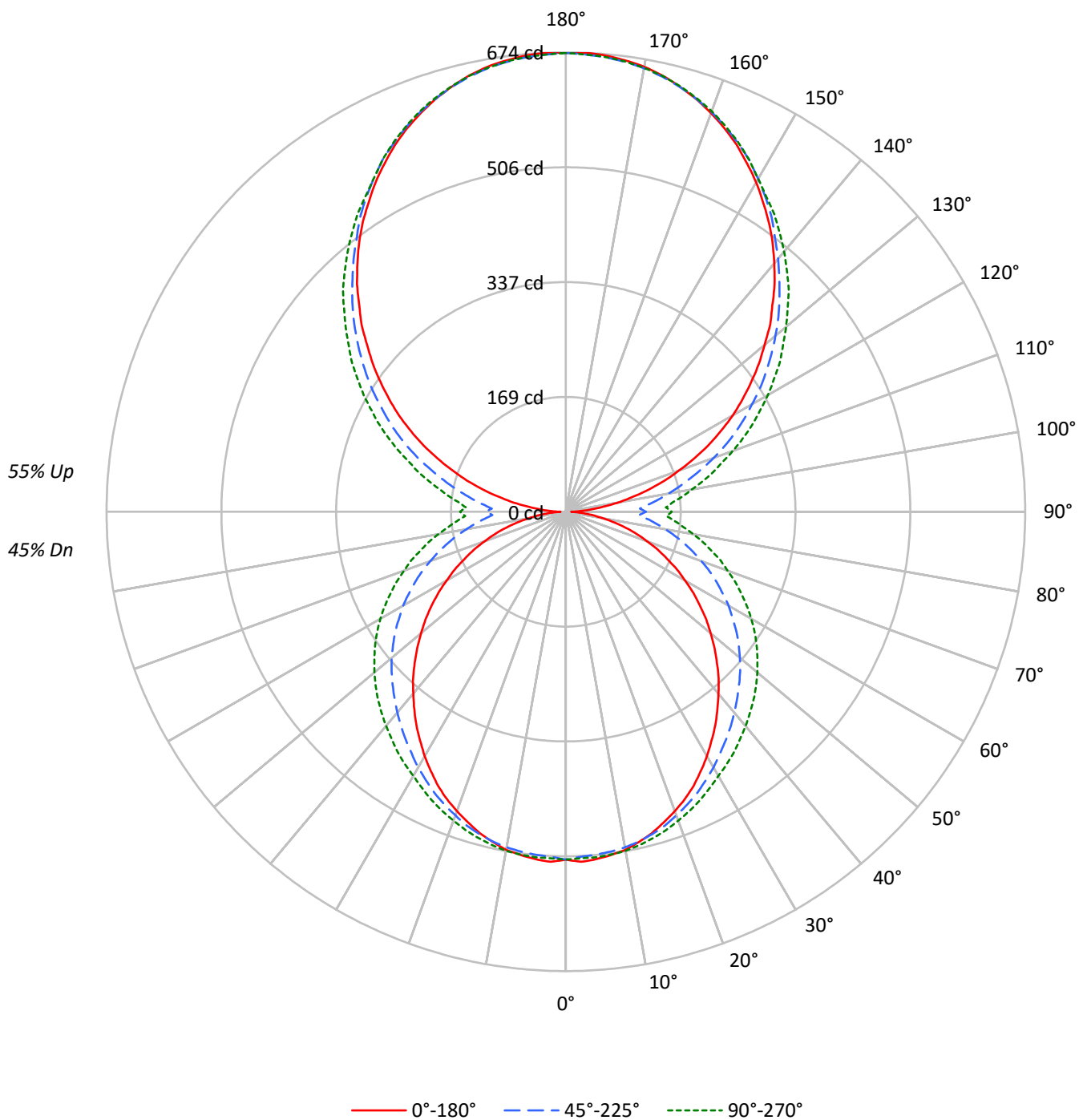
Lumens per Lamp: N/A
Luminaire Lumens: 3831.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	95	90	86	82	87	83	79	76	69	66	63	56	54	52	44	42	41
2	86	78	72	66	79	72	66	61	59	55	51	48	45	42	38	35	33
3	78	68	60	54	71	63	56	50	52	47	43	42	38	35	33	30	28
4	71	60	52	45	65	55	48	42	46	40	36	37	33	30	29	26	24
5	65	53	45	39	59	49	42	36	41	35	31	33	29	25	26	23	20
6	60	48	39	33	55	44	36	31	37	31	26	30	25	22	23	20	18
7	56	43	35	29	51	40	32	27	33	27	23	27	23	19	21	18	16
8	51	39	31	25	47	36	29	24	30	24	20	25	20	17	20	16	14
9	48	35	28	23	44	33	26	21	27	22	18	23	18	15	18	15	12
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°	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	1.3
10°-20°	138.7	3.6
20°-30°	210.2	5.5
30°-40°	256.0	6.7
40°-50°	275.4	7.2
50°-60°	267.5	7.0
60°-70°	233.6	6.1
70°-80°	179.8	4.7
80°-90°	122.3	3.2
90°-100°	124.7	3.3
100°-110°	193.0	5.0
110°-120°	266.6	7.0
120°-130°	320.2	8.4
130°-140°	343.8	9.0
140°-150°	329.5	8.6
150°-160°	275.1	7.2
160°-170°	182.4	4.8
170°-180°	63.8	1.7
0°-30°	397.3	10.4
0°-40°	653.3	17.1
0°-60°	1196.2	31.2
0°-90°	1731.9	45.2
90°-120°	584.3	15.3
90°-150°	1577.8	41.2
90°-180°	2099.0	54.8
0°-180°	3831.0	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	58	118	146	155	7
95°	35	76	121	150	157	38
105°	126	149	189	216	224	133
115°	230	242	274	296	302	227
125°	332	337	359	377	384	297
135°	428	435	443	458	462	331
145°	519	523	527	532	533	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°	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°	8.0	57.7	117.5	145.9	155.4
92.5°	19.2	62.9	108.6	138.0	146.9
95°	35.4	75.9	121.4	149.5	157.2
97.5°	54.6	91.5	136.7	164.0	172.9
100°	77.3	109.2	152.4	179.7	187.2
102.5°	100.4	128.2	170.5	197.7	205.2
105°	125.8	148.9	188.6	215.6	223.7
107.5°	152.0	171.9	208.9	234.7	240.0
110°	176.3	194.4	230.7	254.3	260.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	203.5	218.7	252.2	274.2	281.1
115°	230.2	241.7	273.9	295.5	301.9
117.5°	256.1	266.6	294.8	315.3	321.0
120°	282.8	290.4	315.4	336.1	342.5
122.5°	307.3	313.7	338.2	356.5	362.0
125°	332.1	337.2	359.1	377.4	383.6
127.5°	357.1	362.6	380.3	396.5	401.5
130°	380.4	387.0	401.5	418.0	421.7
132.5°	406.5	411.4	423.1	437.3	441.5
135°	428.5	434.7	443.3	458.3	462.5
137.5°	453.5	458.6	463.4	476.9	479.9
140°	475.6	480.0	484.4	496.2	498.3
142.5°	498.3	502.8	504.5	513.9	515.4
145°	519.2	523.2	526.6	531.6	533.0
147.5°	538.5	543.7	545.9	547.8	547.8
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)