

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: P1009114

Luminaire Tested: S122DIP-B485D530UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009114
REPORT IS A COMBINATION OF REPORTS P984292 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D530UB50-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

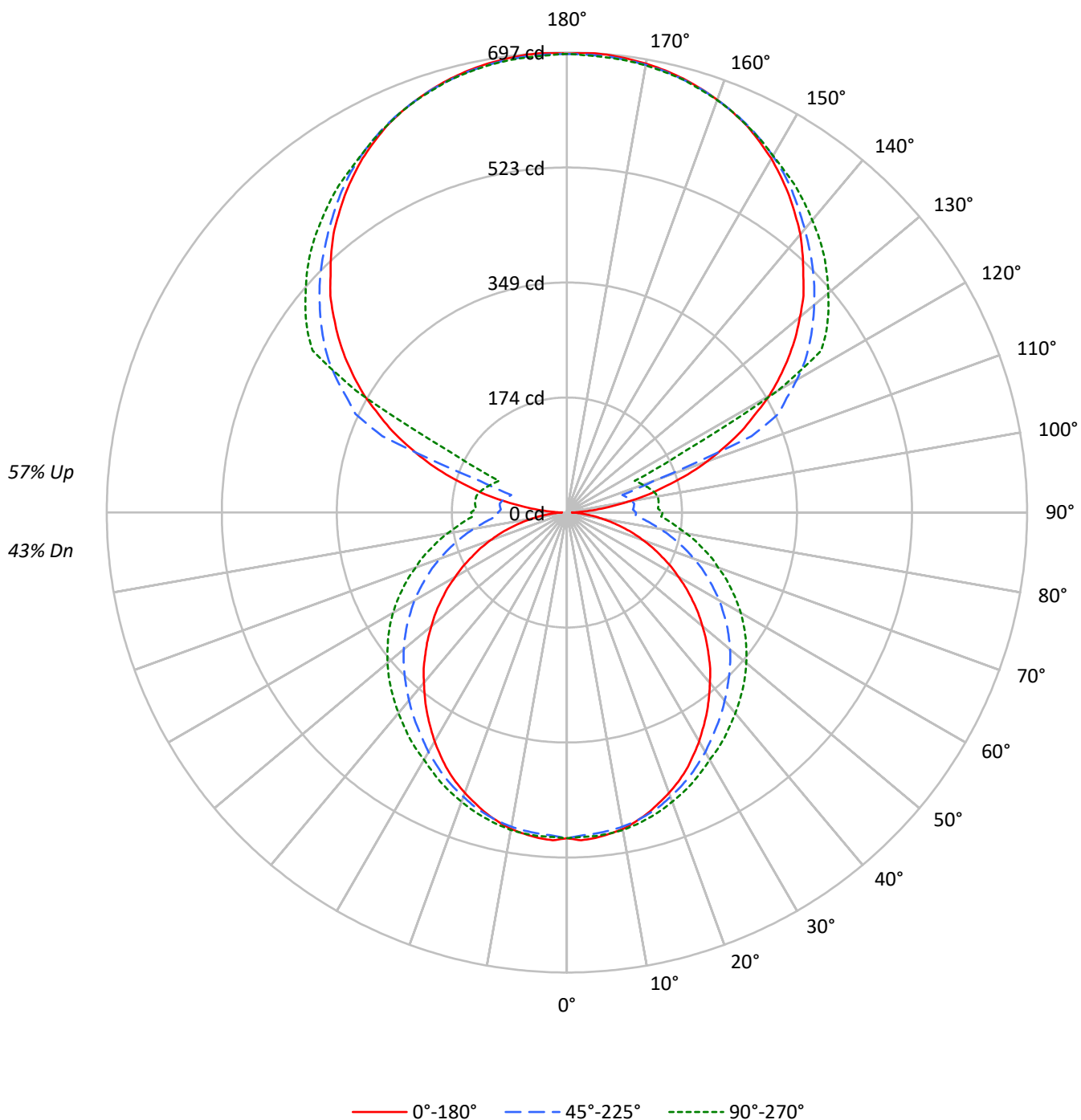
Lumens per Lamp: N/A
Luminaire Lumens: 3921.0 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	7812	7812	7812
5°	7847	7478	7437
10°	7795	7220	7114
15°	7684	6952	6784
20°	7545	6669	6470
25°	7408	6401	6186
30°	7216	6127	5904
35°	7023	5863	5698
40°	6819	5635	5491
45°	6622	5428	5312
50°	6414	5238	5135
55°	6193	5035	4955
60°	5926	4824	4767
65°	5645	4580	4548
70°	5327	4319	4315
75°	4923	4060	4092
80°	4279	3789	3864
85°	3630	3534	3666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6622 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	1.2
10°-20°	134.2	3.4
20°-30°	203.3	5.2
30°-40°	247.6	6.3
40°-50°	266.4	6.8
50°-60°	258.7	6.6
60°-70°	225.9	5.8
70°-80°	173.9	4.4
80°-90°	117.7	3.0
90°-100°	103.2	2.6
100°-110°	144.1	3.7
110°-120°	265.2	6.8
120°-130°	397.2	10.1
130°-140°	408.1	10.4
140°-150°	372.4	9.5
150°-160°	298.2	7.6
160°-170°	192.1	4.9
170°-180°	66.1	1.7
0°-30°	384.3	9.8
0°-40°	631.8	16.1
0°-60°	1156.9	29.5
0°-90°	1674.3	42.7
90°-120°	512.6	13.1
90°-150°	1690.3	43.1
90°-180°	2247.0	57.3
0°-180°	3921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	495	493	488	493	492	47
15°	472	474	474	480	479	133
25°	429	434	441	449	451	197
35°	370	382	396	411	416	231
45°	303	323	348	370	377	234
55°	232	258	295	321	330	208
65°	159	194	236	265	275	158
75°	88	128	174	204	214	93
85°	26	70	116	146	156	27
90°	8	55	104	136	145	7
95°	38	55	102	132	140	43
105°	156	192	92	123	133	167
115°	292	308	353	142	113	287
125°	410	417	449	472	480	366
135°	506	514	526	546	551	391
145°	587	586	595	602	604	367
155°	646	642	648	650	646	298
165°	681	678	679	683	679	192
175°	696	693	694	697	692	66
180°	695	695	695	695	695	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	493.5	493.5	493.5	493.5	493.5
2.5°	497.1	494.9	489.9	493.5	492.1
5°	494.9	492.8	488.5	492.8	492.1
7.5°	491.3	489.9	486.3	491.3	490.6
10°	487.1	485.6	483.5	489.2	488.5
12.5°	479.9	480.6	479.2	484.9	484.2
15°	472.0	473.5	473.5	479.9	479.2
17.5°	462.0	464.9	467.0	473.5	473.5
20°	452.0	455.6	458.4	466.3	466.3
22.5°	441.3	445.6	449.9	457.7	459.2
25°	429.1	434.1	440.6	449.2	451.3
27.5°	414.8	422.7	429.8	440.6	442.0
30°	400.5	409.8	419.1	430.6	432.7
32.5°	384.8	395.5	407.0	420.5	424.8
35°	369.8	381.9	395.5	411.2	416.3
37.5°	353.3	366.9	384.1	401.2	406.2
40°	336.9	352.6	371.9	390.5	396.9
42.5°	321.1	336.9	359.7	380.5	386.9
45°	303.2	322.6	347.6	369.8	376.9
47.5°	286.1	306.8	335.4	358.3	366.2
50°	268.2	290.4	322.6	346.9	354.7
52.5°	251.0	274.6	309.0	334.0	342.6
55°	232.4	258.2	295.4	321.1	330.4
57.5°	214.6	243.2	280.4	308.3	317.6
60°	195.3	226.0	266.8	294.0	304.0
62.5°	178.1	210.3	251.0	280.4	289.7
65°	158.8	193.8	236.0	265.3	274.6
67.5°	141.6	178.1	221.0	250.3	260.3
70°	123.0	160.2	204.5	235.3	243.9
72.5°	105.9	144.5	189.5	219.6	230.3
75°	88.0	128.0	173.8	204.5	213.8
77.5°	70.8	112.3	158.8	189.5	199.5
80°	53.6	97.3	143.8	173.8	183.8
82.5°	39.3	82.2	129.5	159.5	168.8
85°	25.7	70.1	115.9	145.9	155.9
87.5°	15.7	58.6	104.4	133.7	143.0
90°	7.7	54.6	104.5	135.6	145.2
92.5°	19.0	54.9	100.1	129.0	138.0
95°	38.4	55.4	101.8	131.5	139.6
97.5°	63.8	53.4	102.8	130.8	139.9
100°	94.0	51.6	100.2	130.7	139.6
102.5°	126.5	149.1	96.2	127.5	136.8
105°	156.4	192.2	92.2	122.7	132.6
107.5°	192.1	221.8	88.2	118.0	127.9
110°	225.6	250.5	140.2	112.8	122.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	257.8	278.2	302.6	108.8	118.2
115°	292.0	308.3	353.1	141.8	113.4
117.5°	320.8	336.7	375.2	324.8	200.2
120°	354.0	364.4	402.1	428.1	368.2
122.5°	382.2	391.0	427.5	449.8	456.8
125°	410.1	416.6	449.1	471.9	479.9
127.5°	436.3	442.6	469.4	492.4	499.3
130°	460.9	468.2	488.8	511.5	516.7
132.5°	486.0	491.9	508.1	529.1	534.3
135°	506.4	514.5	526.2	546.2	550.9
137.5°	528.6	534.6	543.2	561.8	565.3
140°	550.2	553.5	560.4	576.4	578.2
142.5°	568.3	571.1	577.6	590.2	591.3
145°	586.7	586.2	594.7	602.5	603.6
147.5°	603.3	601.8	610.3	613.5	613.7
150°	619.3	615.8	623.9	626.9	624.4
152.5°	632.9	628.9	636.4	639.5	635.9
155°	646.0	641.5	647.5	650.5	646.5
157.5°	656.5	652.5	657.1	660.6	656.5
160°	665.6	662.6	665.6	668.6	665.1
162.5°	673.6	670.6	673.1	676.7	672.1
165°	680.7	677.7	679.2	682.7	679.2
167.5°	686.2	683.2	684.7	688.2	683.7
170°	690.7	687.7	688.7	692.2	687.7
172.5°	693.7	690.7	691.7	695.3	690.7
175°	696.3	692.7	693.7	697.3	692.2
177.5°	697.3	693.7	694.3	697.8	693.2
180°	694.8	694.8	694.8	694.8	694.8

(END OF REPORT)