

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: P1009109

Luminaire Tested: S122DIP-B485D530UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009109
REPORT IS A COMBINATION OF REPORTS P984287 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-F1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

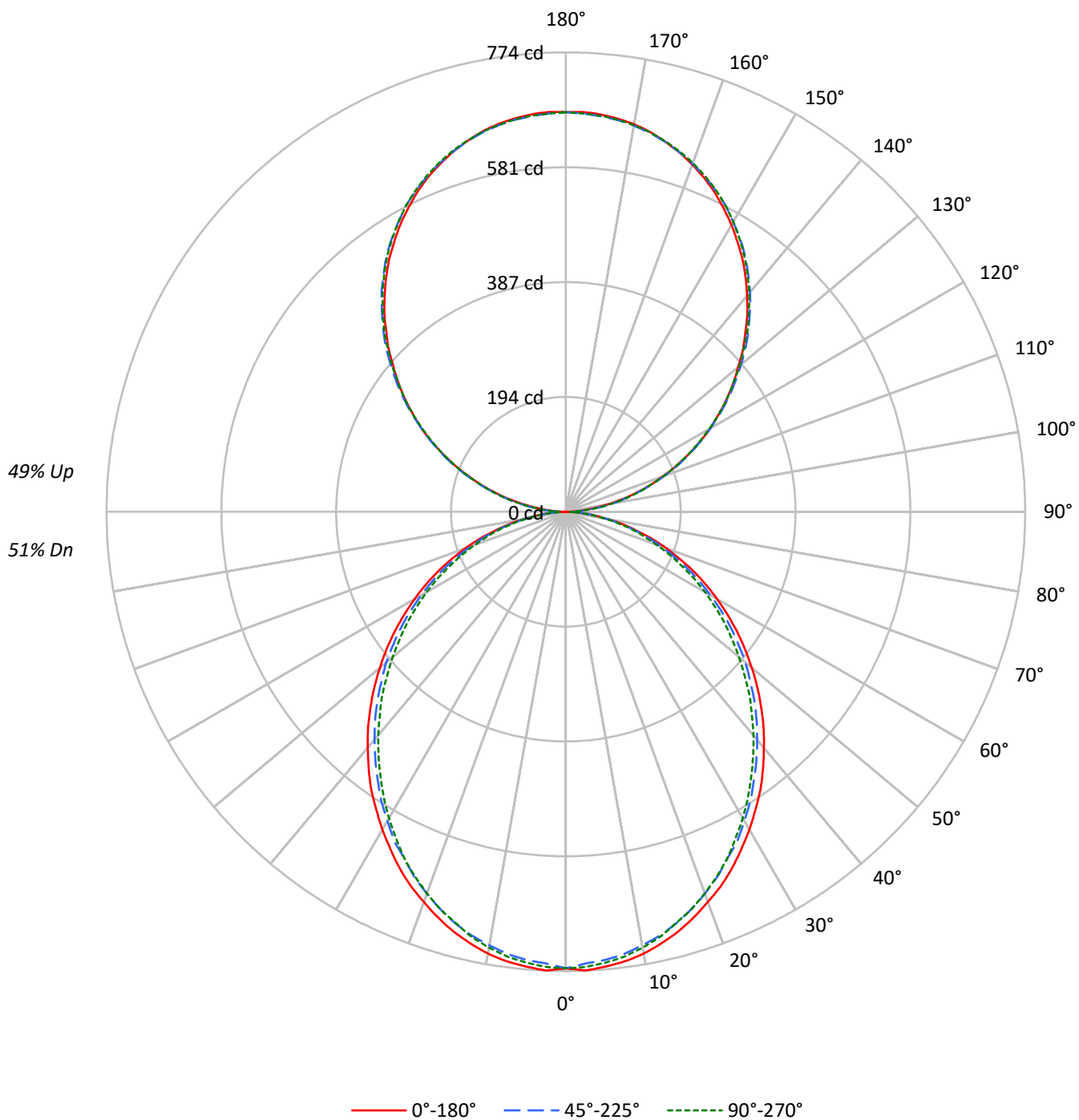
Lumens per Lamp: N/A
Luminaire Lumens: 3841.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	107	107	107	107	99	99	99	99	84	84	84		70	70	70		57
1	98	94	90	86	90	87	83	80	74	71	69		62	60	58		50
2	89	82	76	70	82	76	70	66	64	60	57		54	51	49		44
3	81	72	65	59	75	67	60	55	57	52	48		48	44	41		39
4	74	64	56	50	69	59	52	47	51	45	41		43	39	35		35
5	68	57	49	43	63	53	46	40	45	40	35		38	34	31		32
6	63	51	43	37	58	47	40	35	41	35	31		35	30	27		29
7	58	46	38	32	54	43	36	31	37	31	27		31	27	24		26
8	54	42	34	29	50	39	32	27	34	28	24		29	24	21		24
9	50	38	31	26	46	36	29	24	31	25	22		26	22	19		22
10	47	35	28	23	43	33	26	22	28	23	19		24	20	17		21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12176	12176	12176
5°	12196	11606	11524
10°	12097	11076	10857
15°	11919	10544	10156
20°	11680	9965	9493
25°	11441	9359	8829
30°	11141	8790	8133
35°	10857	8190	7451
40°	10508	7598	6805
45°	10160	7011	6172
50°	9781	6413	5514
55°	9382	5772	4892
60°	8933	5082	4245
65°	8439	4378	3564
70°	7817	3609	2878
75°	6953	2782	2222
80°	5908	1889	1430
85°	4280	878	609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10160 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.9
10°-20°	203.7	5.3
20°-30°	299.3	7.8
30°-40°	347.7	9.1
40°-50°	347.2	9.0
50°-60°	302.8	7.9
60°-70°	223.8	5.8
70°-80°	126.6	3.3
80°-90°	35.3	0.9
90°-100°	41.6	1.1
100°-110°	132.4	3.4
110°-120°	226.5	5.9
120°-130°	297.9	7.8
130°-140°	334.4	8.7
140°-150°	327.9	8.5
150°-160°	275.1	7.2
160°-170°	182.4	4.7
170°-180°	63.8	1.7
0°-30°	575.4	15.0
0°-40°	923.1	24.0
0°-60°	1573.1	41.0
0°-90°	1958.9	51.0
90°-120°	400.5	10.4
90°-150°	1360.8	35.4
90°-180°	1882.0	49.0
0°-180°	3841.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	769	766	758	764	763	73
15°	732	728	718	721	717	206
25°	663	657	644	646	644	305
35°	572	564	552	548	544	357
45°	465	460	449	441	438	359
55°	352	348	339	330	326	315
65°	237	233	226	219	215	235
75°	124	123	119	115	116	133
85°	30	30	29	27	26	34
90°	1	7	20	19	19	4
95°	30	35	36	36	35	33
105°	122	124	125	126	126	129
115°	227	231	230	229	227	225
125°	331	336	334	332	332	295
135°	428	434	435	435	433	331
145°	519	523	527	527	525	324
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°	769.2	769.2	769.2	769.2	769.2
2.5°	773.7	770.0	761.8	769.2	767.7
5°	769.2	766.3	758.1	764.0	762.6
7.5°	764.0	759.6	751.5	757.4	755.9
10°	755.9	750.7	741.8	747.8	745.5
12.5°	744.8	740.4	731.5	735.2	733.7
15°	732.2	727.8	718.2	721.1	717.4
17.5°	716.7	712.3	702.6	706.3	702.6
20°	699.7	695.2	684.9	687.1	684.2
22.5°	682.7	676.0	666.4	666.4	664.9
25°	662.7	656.8	644.2	645.7	644.2
27.5°	640.5	635.3	625.7	623.5	619.8
30°	618.3	612.4	601.3	599.1	596.1
32.5°	594.7	590.2	578.4	574.0	571.0
35°	571.7	564.3	552.5	548.1	544.4
37.5°	545.8	539.2	527.4	522.2	518.5
40°	519.2	513.3	501.5	494.8	491.9
42.5°	493.3	487.4	475.6	468.2	463.7
45°	465.2	460.0	449.0	440.8	437.9
47.5°	437.9	432.7	420.8	412.7	408.3
50°	409.0	405.3	395.0	384.6	380.9
52.5°	380.9	375.7	366.1	358.0	352.8
55°	352.1	347.6	338.7	329.9	326.2
57.5°	323.2	319.5	309.9	301.0	298.1
60°	294.4	291.4	281.1	272.9	270.7
62.5°	266.3	261.1	253.7	246.3	243.3
65°	237.4	233.0	225.6	218.9	215.2
67.5°	207.8	204.1	197.5	192.3	189.3
70°	180.5	177.5	170.9	165.7	162.7
72.5°	152.4	149.4	145.7	140.5	138.3
75°	124.3	122.8	119.1	114.6	116.1
77.5°	99.1	96.2	94.7	92.5	90.2
80°	74.0	73.2	71.7	69.5	68.0
82.5°	50.3	50.3	49.6	46.6	46.6
85°	30.3	29.6	28.8	26.6	25.9
87.5°	13.3	11.8	10.4	8.1	7.4
90°	0.6	7.4	19.9	18.7	19.3
92.5°	12.5	17.0	17.6	18.2	18.2
95°	29.5	35.2	36.4	36.4	35.2
97.5°	49.4	54.5	56.8	56.8	56.8
100°	72.1	76.7	78.4	78.4	77.8
102.5°	96.0	99.4	101.7	102.3	101.7
105°	122.1	123.8	125.0	126.1	126.1
107.5°	148.3	150.5	150.5	151.1	148.3
110°	173.3	176.7	176.7	176.7	175.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	200.5	203.9	203.4	201.7	200.5
115°	227.2	230.6	229.5	228.9	227.2
117.5°	253.9	258.5	255.6	253.9	252.2
120°	280.6	285.2	280.6	280.6	278.9
122.5°	305.1	310.7	307.9	306.2	305.1
125°	330.6	335.7	334.0	332.3	331.8
127.5°	355.6	361.9	359.6	357.3	355.6
130°	378.9	386.3	385.2	384.0	381.8
132.5°	405.0	410.7	411.3	408.5	406.7
135°	427.8	434.0	435.2	434.6	432.9
137.5°	452.8	457.9	459.0	458.4	456.2
140°	474.9	480.0	482.9	482.9	480.6
142.5°	497.6	502.8	504.5	505.0	502.8
145°	519.2	523.2	526.6	527.2	524.9
147.5°	538.5	543.7	545.9	547.1	544.8
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)