

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: P1009082

Luminaire Tested: S122DIP-B485D530UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009082
REPORT IS A COMBINATION OF REPORTS P984245 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D530UB27-4F0-XX-W2A-F1
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

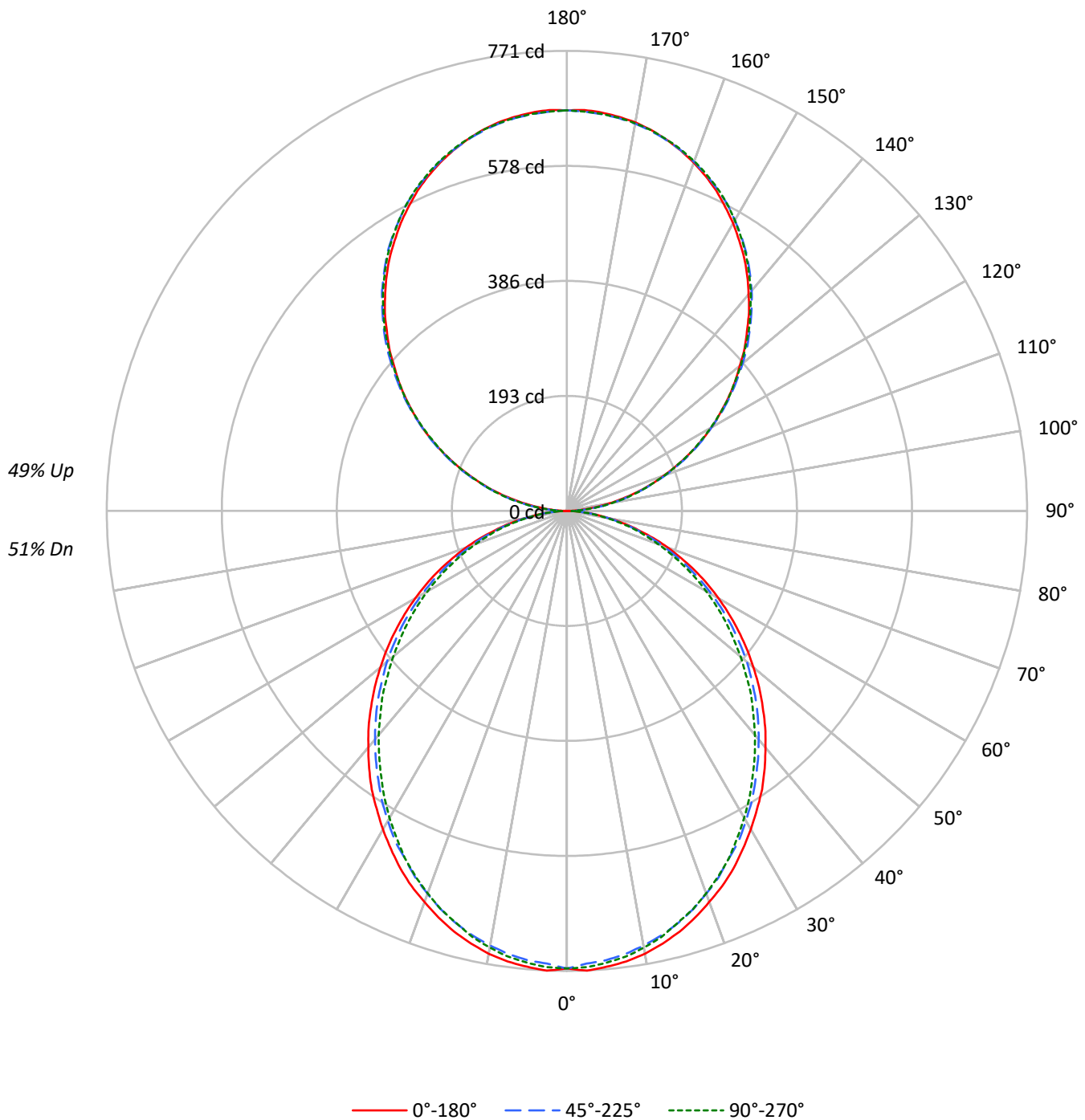
Lumens per Lamp: N/A
Luminaire Lumens: 3830.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	30	10
RCR																	
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	98	94	90	86	90	87	83	80	74	71	69	62	60	58	50	49	48
2	89	82	76	70	82	76	70	66	64	60	57	54	51	49	44	42	41
3	81	72	65	59	75	67	60	55	57	52	48	48	44	41	39	37	35
4	74	64	56	50	69	59	52	47	51	45	41	43	39	35	35	32	30
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	32	28	26
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	25	23
7	58	46	38	32	54	43	36	31	37	31	27	31	27	24	26	23	20
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12139	12139	12139
5°	12159	11571	11488
10°	12060	11044	10825
15°	11883	10512	10125
20°	11644	9934	9464
25°	11407	9330	8802
30°	11106	8764	8109
35°	10825	8165	7428
40°	10476	7574	6783
45°	10129	6989	6152
50°	9752	6394	5497
55°	9353	5755	4877
60°	8906	5066	4232
65°	8415	4365	3554
70°	7791	3597	2869
75°	6931	2773	2216
80°	5884	1884	1425
85°	4266	878	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10129 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.9
10°-20°	203.1	5.3
20°-30°	298.4	7.8
30°-40°	346.6	9.0
40°-50°	346.2	9.0
50°-60°	301.9	7.9
60°-70°	223.1	5.8
70°-80°	126.3	3.3
80°-90°	35.2	0.9
90°-100°	41.5	1.1
100°-110°	132.0	3.4
110°-120°	225.9	5.9
120°-130°	297.1	7.8
130°-140°	333.5	8.7
140°-150°	327.1	8.5
150°-160°	274.3	7.2
160°-170°	182.0	4.8
170°-180°	63.6	1.7
0°-30°	573.7	15.0
0°-40°	920.3	24.0
0°-60°	1568.3	40.9
0°-90°	1952.9	51.0
90°-120°	399.5	10.4
90°-150°	1357.2	35.4
90°-180°	1877.0	49.0
0°-180°	3830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	764	756	762	760	73
15°	730	726	716	719	715	206
25°	661	655	642	644	642	304
35°	570	563	551	546	543	356
45°	464	459	448	440	436	358
55°	351	347	338	329	325	314
65°	237	232	225	218	215	234
75°	124	122	119	114	116	132
85°	30	30	29	26	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	230	229	228	227	224
125°	330	335	333	331	331	295
135°	427	433	434	433	432	330
145°	518	522	525	526	524	324
155°	592	594	596	598	597	273
165°	644	644	644	648	645	182
175°	670	669	667	671	668	64
180°	671	671	671	671	671	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.9	766.9	766.9	766.9	766.9
2.5°	771.3	767.6	759.5	766.9	765.4
5°	766.9	763.9	755.8	761.7	760.2
7.5°	761.7	757.3	749.2	755.1	753.6
10°	753.6	748.4	739.6	745.5	743.3
12.5°	742.5	738.1	729.2	732.9	731.5
15°	730.0	725.6	716.0	718.9	715.2
17.5°	714.5	710.1	700.5	704.2	700.5
20°	697.5	693.1	682.8	685.0	682.1
22.5°	680.6	673.9	664.4	664.4	662.9
25°	660.7	654.8	642.2	643.7	642.2
27.5°	638.6	633.4	623.8	621.6	617.9
30°	616.4	610.5	599.5	597.3	594.3
32.5°	592.8	588.4	576.6	572.2	569.2
35°	570.0	562.6	550.8	546.4	542.7
37.5°	544.2	537.5	525.7	520.6	516.9
40°	517.6	511.7	499.9	493.3	490.3
42.5°	491.8	485.9	474.1	466.7	462.3
45°	463.8	458.6	447.6	439.5	436.5
47.5°	436.5	431.4	419.6	411.4	407.0
50°	407.8	404.1	393.8	383.4	379.7
52.5°	379.7	374.6	365.0	356.9	351.7
55°	351.0	346.6	337.7	328.9	325.2
57.5°	322.2	318.5	309.0	300.1	297.2
60°	293.5	290.5	280.2	272.1	269.9
62.5°	265.4	260.3	252.9	245.5	242.6
65°	236.7	232.3	224.9	218.3	214.6
67.5°	207.2	203.5	196.9	191.7	188.8
70°	179.9	177.0	170.3	165.2	162.2
72.5°	151.9	148.9	145.3	140.1	137.9
75°	123.9	122.4	118.7	114.3	115.8
77.5°	98.8	95.9	94.4	92.2	90.0
80°	73.7	73.0	71.5	69.3	67.8
82.5°	50.1	50.1	49.4	46.5	46.5
85°	30.2	29.5	28.8	26.5	25.8
87.5°	13.3	11.8	10.3	8.1	7.4
90°	0.6	7.4	19.8	18.7	19.3
92.5°	12.5	17.0	17.6	18.1	18.1
95°	29.5	35.1	36.3	36.3	35.1
97.5°	49.3	54.4	56.7	56.7	56.7
100°	72.0	76.5	78.2	78.2	77.6
102.5°	95.8	99.2	101.4	102.0	101.4
105°	121.8	123.5	124.6	125.8	125.8
107.5°	147.9	150.1	150.1	150.7	147.9
110°	172.8	176.2	176.2	176.2	174.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	200.0	203.4	202.8	201.1	200.0
115°	226.6	230.0	228.9	228.3	226.6
117.5°	253.3	257.8	255.0	253.3	251.6
120°	279.9	284.4	279.9	279.9	278.2
122.5°	304.3	309.9	307.1	305.4	304.3
125°	329.7	334.8	333.1	331.4	330.9
127.5°	354.7	360.9	358.6	356.4	354.7
130°	377.9	385.3	384.1	383.0	380.7
132.5°	404.0	409.6	410.2	407.4	405.7
135°	426.6	432.9	434.0	433.4	431.7
137.5°	451.6	456.7	457.8	457.2	455.0
140°	473.7	478.8	481.6	481.6	479.3
142.5°	496.3	501.4	503.1	503.7	501.4
145°	517.9	521.8	525.2	525.8	523.5
147.5°	537.1	542.2	544.5	545.6	543.3
150°	556.9	560.3	562.6	564.3	562.6
152.5°	574.5	577.9	580.7	583.0	580.7
155°	592.1	593.8	595.5	598.3	596.6
157.5°	607.4	608.5	609.6	613.6	610.8
160°	621.0	622.1	622.7	626.1	623.8
162.5°	633.4	633.4	634.0	638.0	635.1
165°	644.2	643.6	643.6	647.6	644.8
167.5°	653.8	652.1	652.1	656.1	653.3
170°	661.2	659.5	658.9	662.9	659.5
172.5°	666.3	664.6	664.0	668.0	664.6
175°	670.3	668.6	667.4	671.4	668.0
177.5°	672.5	670.8	669.7	673.1	669.7
180°	671.4	671.4	671.4	671.4	671.4

(END OF REPORT)