

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: P1010037

Luminaire Tested: S122RDIP-B485D530UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010037
REPORT IS A COMBINATION OF REPORTS P988337 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B485D530UB50-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

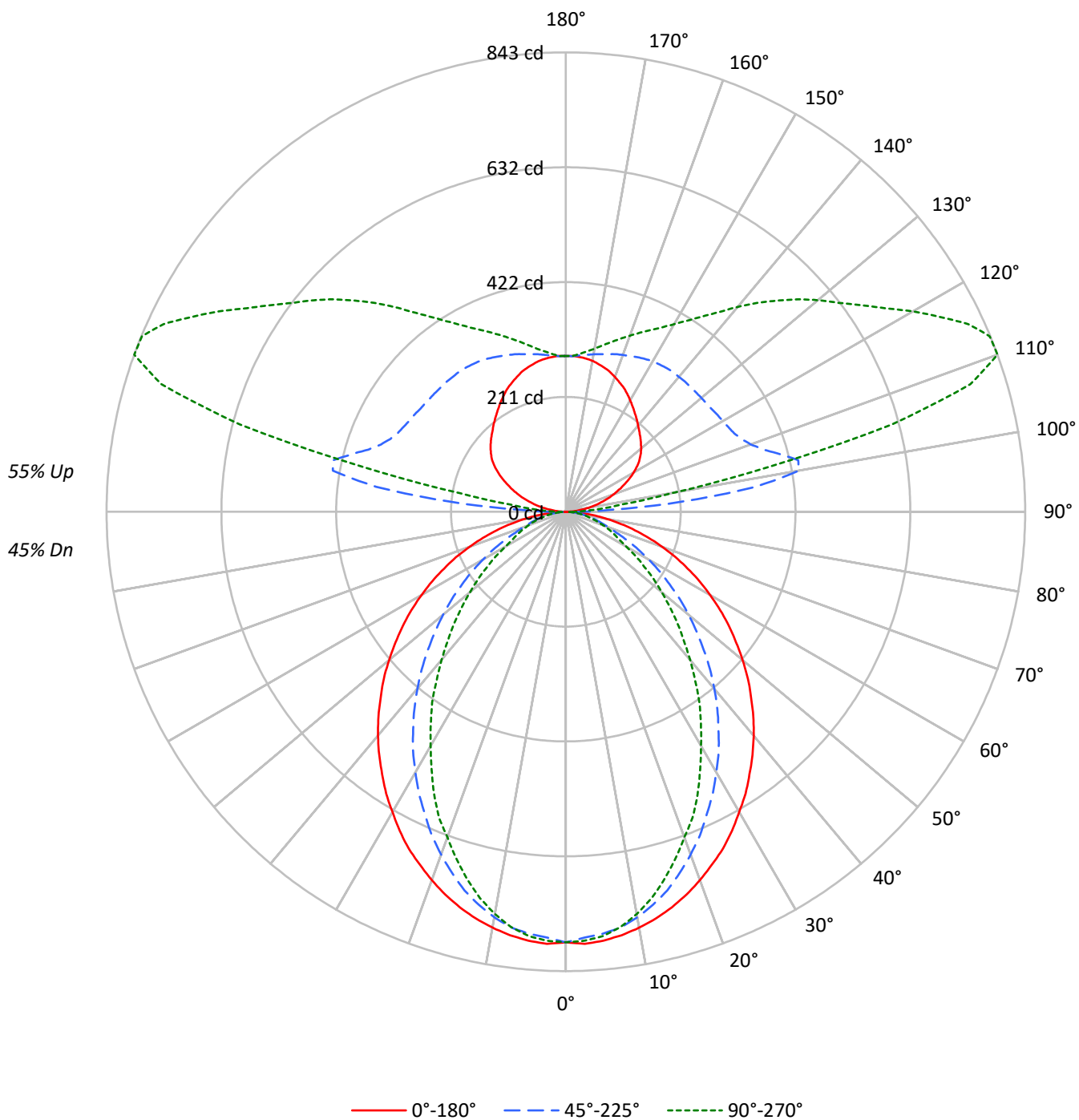
Lumens per Lamp: N/A
Luminaire Lumens: 3619.3 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	65	65	65	51	51	51
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44
2	89	82	76	71	81	75	70	66	63	59	56	52	49	47	41	39	38
3	81	72	65	60	74	66	60	55	56	51	48	46	43	40	37	35	33
4	74	64	57	51	68	59	53	47	50	45	41	41	38	35	33	31	29
5	69	57	49	44	63	53	46	41	45	40	36	37	33	30	30	27	25
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	27	25	22
7	59	47	39	34	54	43	36	32	37	32	28	31	27	24	25	22	20
8	54	42	35	30	50	39	33	28	34	28	25	28	24	21	23	20	18
9	51	39	32	27	47	36	30	25	31	26	22	26	22	19	22	19	16
10	47	36	29	24	44	33	27	23	29	24	20	24	20	18	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12507	12507	12507
5°	12527	11900	11810
10°	12404	11285	10913
15°	12233	10561	9890
20°	12007	9738	8820
25°	11778	8893	7840
30°	11467	8069	6770
35°	11163	7240	5852
40°	10854	6424	4907
45°	10494	5582	4082
50°	10123	4772	3322
55°	9737	3961	2638
60°	9285	3168	1996
65°	8770	2414	1623
70°	8146	1751	1290
75°	7362	1336	986
80°	6219	904	662
85°	4337	415	320

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10494 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	2.0
10°-20°	203.3	5.6
20°-30°	285.4	7.9
30°-40°	311.1	8.6
40°-50°	285.9	7.9
50°-60°	224.6	6.2
60°-70°	146.2	4.0
70°-80°	75.2	2.1
80°-90°	21.0	0.6
90°-100°	115.8	3.2
100°-110°	391.6	10.8
110°-120°	411.7	11.4
120°-130°	338.5	9.4
130°-140°	272.0	7.5
140°-150°	205.5	5.7
150°-160°	144.5	4.0
160°-170°	85.1	2.4
170°-180°	27.7	0.8
0°-30°	562.8	15.5
0°-40°	873.9	24.1
0°-60°	1384.4	38.3
0°-90°	1626.8	44.9
90°-120°	919.2	25.4
90°-150°	1735.2	47.9
90°-180°	1992.0	55.0
0°-180°	3619.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	790	787	777	784	782	75
15°	752	744	719	706	699	212
25°	682	659	612	583	572	314
35°	588	551	488	443	428	368
45°	480	433	358	307	290	371
55°	365	310	232	190	176	326
65°	247	189	124	100	98	245
75°	132	82	57	52	52	139
85°	31	16	14	14	14	35
90°	0	7	19	18	18	3
95°	19	47	215	81	63	20
105°	67	101	407	728	619	71
115°	118	149	341	703	815	117
125°	165	195	328	570	661	147
135°	193	231	324	479	548	149
145°	221	254	322	400	438	139
155°	251	271	313	354	368	116
165°	274	282	300	318	323	77
175°	285	286	288	292	291	27
180°	286	286	286	286	286	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	790.1	790.1	790.1	790.1	790.1
2.5°	793.7	790.1	782.3	789.4	788.0
5°	790.1	786.6	777.3	783.7	781.5
7.5°	783.7	779.4	769.4	772.3	768.7
10°	775.1	770.1	755.8	753.7	749.4
12.5°	764.4	758.0	738.6	734.4	726.5
15°	751.5	743.6	719.3	705.8	698.6
17.5°	736.5	725.1	695.0	679.3	667.9
20°	719.3	705.0	669.3	651.4	635.7
22.5°	700.7	684.3	642.8	618.5	607.8
25°	682.2	659.3	612.1	582.8	572.0
27.5°	660.0	635.7	583.5	549.9	533.4
30°	636.4	609.2	552.0	515.5	496.2
32.5°	613.5	580.6	522.0	479.1	461.2
35°	587.8	551.3	488.4	443.3	427.6
37.5°	562.7	523.4	456.9	407.6	389.7
40°	536.3	493.4	424.0	373.3	354.7
42.5°	509.1	463.4	391.1	338.2	320.3
45°	480.5	432.6	357.5	306.8	289.6
47.5°	453.3	402.6	325.3	274.6	258.8
50°	423.3	372.5	293.9	244.5	229.5
52.5°	394.0	340.4	263.9	216.7	203.1
55°	365.4	309.6	232.4	189.5	175.9
57.5°	336.1	278.9	204.5	164.5	153.0
60°	306.0	248.8	175.2	138.7	127.3
62.5°	276.7	219.5	150.2	115.8	110.1
65°	246.7	188.8	124.4	100.1	98.0
67.5°	218.1	160.2	100.1	88.0	85.8
70°	188.1	132.3	82.9	75.8	72.9
72.5°	159.5	106.5	69.4	63.6	62.2
75°	131.6	81.5	57.2	52.2	51.5
77.5°	103.7	57.9	45.0	42.2	40.8
80°	77.9	41.5	34.3	31.5	31.5
82.5°	54.3	27.9	23.6	22.2	22.2
85°	30.7	15.7	13.6	13.6	13.6
87.5°	11.4	5.7	5.7	5.0	5.0
90°	0.5	7.4	18.7	17.8	18.1
92.5°	8.2	26.1	84.6	39.0	33.5
95°	19.2	47.3	215.4	81.4	62.7
97.5°	28.6	62.4	351.2	163.2	105.0
100°	42.3	76.4	434.2	325.0	196.7
102.5°	55.0	89.0	436.9	549.6	383.6
105°	67.0	101.1	407.2	727.9	619.4
107.5°	80.2	113.2	379.8	792.5	778.2
110°	93.4	125.6	361.1	782.0	843.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.5	137.4	349.0	746.6	841.9
115°	118.2	149.2	340.7	703.2	815.0
117.5°	131.3	161.0	336.3	661.7	774.3
120°	143.4	172.6	332.5	624.6	735.3
122.5°	155.0	184.4	330.3	595.8	694.7
125°	164.9	195.1	327.5	569.6	661.1
127.5°	173.1	205.2	325.9	547.4	629.8
130°	180.3	214.3	324.8	524.8	604.0
132.5°	186.9	223.1	324.2	501.4	577.1
135°	193.4	230.8	323.7	478.7	547.9
137.5°	199.5	237.4	323.7	455.6	519.9
140°	206.6	243.4	323.1	435.3	490.8
142.5°	213.8	248.4	323.1	415.8	461.6
145°	220.9	253.9	322.0	399.8	437.5
147.5°	228.6	258.3	320.4	385.8	416.0
150°	236.3	262.6	318.8	373.8	397.3
152.5°	244.0	267.1	316.0	363.5	381.4
155°	251.2	271.2	312.7	353.6	367.7
157.5°	257.2	274.5	309.4	344.3	355.6
160°	263.2	277.8	306.1	335.0	344.0
162.5°	269.3	280.3	303.4	326.2	333.0
165°	273.7	282.0	299.5	317.7	322.6
167.5°	277.5	283.6	296.2	310.0	312.7
170°	281.4	284.4	293.5	302.8	303.9
172.5°	283.6	285.2	290.2	296.5	296.8
175°	285.2	285.5	288.0	291.6	290.7
177.5°	286.3	285.8	285.8	288.0	286.3
180°	285.8	285.8	285.8	285.8	285.8

(END OF REPORT)