

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: P1009541

Luminaire Tested: S122DIP-B865D530UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009541
REPORT IS A COMBINATION OF REPORTS P984875 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D530UB35-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

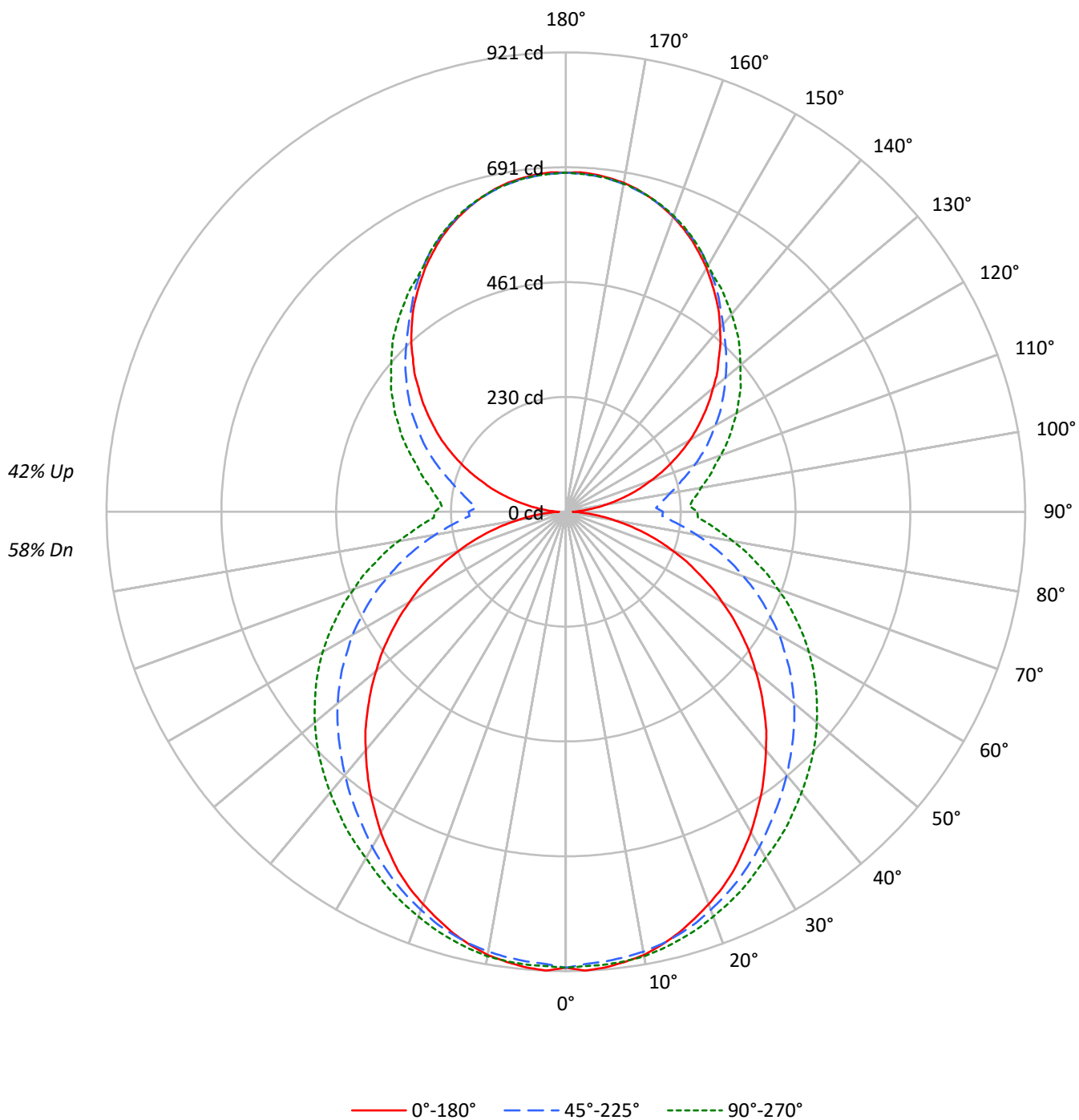
Lumens per Lamp: N/A
Luminaire Lumens: 5391.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 62.2
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	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63
1	98	93	88	84	91	86	82	79	74	71	68	63	61	59	53	51	50
2	88	80	73	67	82	74	68	63	64	59	55	54	51	48	46	43	41
3	80	70	62	55	74	65	58	52	56	50	46	48	43	40	40	37	34
4	73	61	53	46	68	57	50	44	49	43	38	42	37	34	35	32	29
5	67	54	46	39	62	51	43	37	44	38	33	38	33	29	32	28	25
6	62	49	40	34	57	46	38	32	39	33	28	34	29	25	29	25	22
7	57	44	35	30	53	41	33	28	36	30	25	31	26	22	26	22	19
8	53	40	32	26	49	37	30	25	33	26	22	28	23	20	24	20	17
9	49	36	28	23	46	34	27	22	30	24	20	26	21	17	22	18	15
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14470	14470	14470
5°	14536	13853	13775
10°	14438	13373	13178
15°	14234	12876	12565
20°	13977	12355	11985
25°	13723	11856	11458
30°	13368	11348	10936
35°	13007	10860	10552
40°	12629	10437	10173
45°	12268	10054	9841
50°	11880	9701	9513
55°	11474	9326	9180
60°	10976	8935	8830
65°	10455	8485	8425
70°	9870	8002	7993
75°	9118	7519	7581
80°	7936	7018	7158
85°	6738	6544	6791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12268 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.6
10°-20°	248.5	4.6
20°-30°	376.6	7.0
30°-40°	458.6	8.5
40°-50°	493.4	9.2
50°-60°	479.2	8.9
60°-70°	418.5	7.8
70°-80°	322.1	6.0
80°-90°	217.6	4.0
90°-100°	190.9	3.5
100°-110°	242.4	4.5
110°-120°	300.6	5.6
120°-130°	340.9	6.3
130°-140°	354.5	6.6
140°-150°	334.1	6.2
150°-160°	277.9	5.2
160°-170°	184.3	3.4
170°-180°	64.4	1.2
0°-30°	711.8	13.2
0°-40°	1170.4	21.7
0°-60°	2142.9	39.8
0°-90°	3101.1	57.5
90°-120°	733.9	13.6
90°-150°	1763.4	32.7
90°-180°	2290.0	42.5
0°-180°	5391.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	917	913	905	913	912	87
15°	874	877	877	889	888	246
25°	795	804	816	832	836	366
35°	685	708	733	762	771	428
45°	562	598	644	685	698	434
55°	431	478	547	595	612	385
65°	294	359	437	492	509	292
75°	163	237	322	379	396	172
85°	48	130	215	270	289	50
90°	14	98	195	247	263	11
95°	40	108	189	239	254	42
105°	130	170	240	288	302	138
115°	235	253	311	350	363	232
125°	337	342	382	416	428	301
135°	433	440	454	481	490	335
145°	524	528	532	540	545	328
155°	600	601	603	606	604	276
165°	652	652	652	656	653	184
175°	679	677	676	680	676	64
180°	680	680	680	680	680	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.1	914.1	914.1	914.1	914.1
2.5°	920.8	916.8	907.5	914.1	911.5
5°	916.8	912.8	904.9	912.8	911.5
7.5°	910.2	907.5	900.9	910.2	908.8
10°	902.2	899.6	895.6	906.2	904.9
12.5°	889.0	890.3	887.6	898.2	896.9
15°	874.4	877.0	877.0	889.0	887.6
17.5°	855.8	861.1	865.1	877.0	877.0
20°	837.3	843.9	849.2	863.8	863.8
22.5°	817.4	825.4	833.3	847.9	850.5
25°	794.9	804.2	816.1	832.0	836.0
27.5°	768.4	783.0	796.2	816.1	818.7
30°	741.9	759.1	776.3	797.5	801.5
32.5°	712.8	732.6	753.8	779.0	786.9
35°	684.9	707.5	732.6	761.8	771.0
37.5°	654.5	679.6	711.4	743.2	752.5
40°	624.0	653.1	688.9	723.4	735.3
42.5°	594.8	624.0	666.4	704.8	716.7
45°	561.7	597.5	643.9	684.9	698.2
47.5°	529.9	568.4	621.3	663.7	678.3
50°	496.8	537.9	597.5	642.5	657.1
52.5°	465.0	508.7	572.3	618.7	634.6
55°	430.6	478.3	547.2	594.8	612.1
57.5°	397.4	450.4	519.3	571.0	588.2
60°	361.7	418.6	494.2	544.5	563.1
62.5°	329.9	389.5	465.0	519.3	536.6
65°	294.1	359.0	437.2	491.5	508.7
67.5°	262.3	329.9	409.4	463.7	482.2
70°	227.9	296.8	378.9	435.9	451.8
72.5°	196.1	267.6	351.1	406.7	426.6
75°	163.0	237.1	321.9	378.9	396.1
77.5°	131.2	208.0	294.1	351.1	369.6
80°	99.4	180.2	266.3	321.9	340.5
82.5°	72.9	152.4	239.8	295.4	312.7
85°	47.7	129.8	214.6	270.3	288.8
87.5°	29.1	108.6	193.4	247.7	265.0
90°	13.8	97.6	195.0	246.8	263.3
92.5°	24.5	99.3	180.8	233.0	248.9
95°	40.4	108.5	189.1	239.4	254.2
97.5°	59.2	121.3	200.5	249.5	265.4
100°	82.2	135.8	211.7	260.7	274.7
102.5°	104.9	152.1	225.9	274.2	288.2
105°	130.0	170.1	240.1	287.7	302.3
107.5°	156.4	190.5	256.8	302.3	314.1
110°	180.3	210.3	275.2	317.6	330.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	207.9	232.5	292.8	333.5	347.0
115°	234.8	252.9	311.3	350.4	363.3
117.5°	260.5	275.7	328.4	366.5	378.0
120°	287.5	297.4	345.8	382.9	395.6
122.5°	312.1	319.2	365.3	399.4	410.1
125°	336.6	341.7	382.4	416.5	427.8
127.5°	361.8	366.8	400.3	431.1	441.3
130°	385.3	391.5	418.1	448.8	457.1
132.5°	411.7	416.2	436.6	464.3	473.2
135°	433.4	439.7	454.1	481.4	490.2
137.5°	458.6	463.8	471.5	496.2	503.2
140°	481.0	484.9	490.3	511.5	517.2
142.5°	504.0	507.8	509.5	526.0	530.3
145°	524.5	528.5	531.9	540.4	544.8
147.5°	544.0	549.1	551.4	553.9	555.6
150°	564.1	567.5	569.8	571.5	569.8
152.5°	581.8	585.3	588.2	590.5	588.2
155°	599.6	601.4	603.1	605.9	604.2
157.5°	615.1	616.3	617.4	621.4	618.6
160°	628.9	630.0	630.6	634.1	631.8
162.5°	641.5	641.5	642.1	646.1	643.2
165°	652.4	651.9	651.9	655.9	653.0
167.5°	662.2	660.5	660.5	664.5	661.6
170°	669.6	667.9	667.3	671.4	667.9
172.5°	674.8	673.1	672.5	676.5	673.1
175°	678.8	677.1	676.0	680.0	676.5
177.5°	681.1	679.4	678.2	681.7	678.2
180°	680.0	680.0	680.0	680.0	680.0

(END OF REPORT)