

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: P1009495

Luminaire Tested: S122DIP-B865D330UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009495
REPORT IS A COMBINATION OF REPORTS P984814 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D330UB35-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

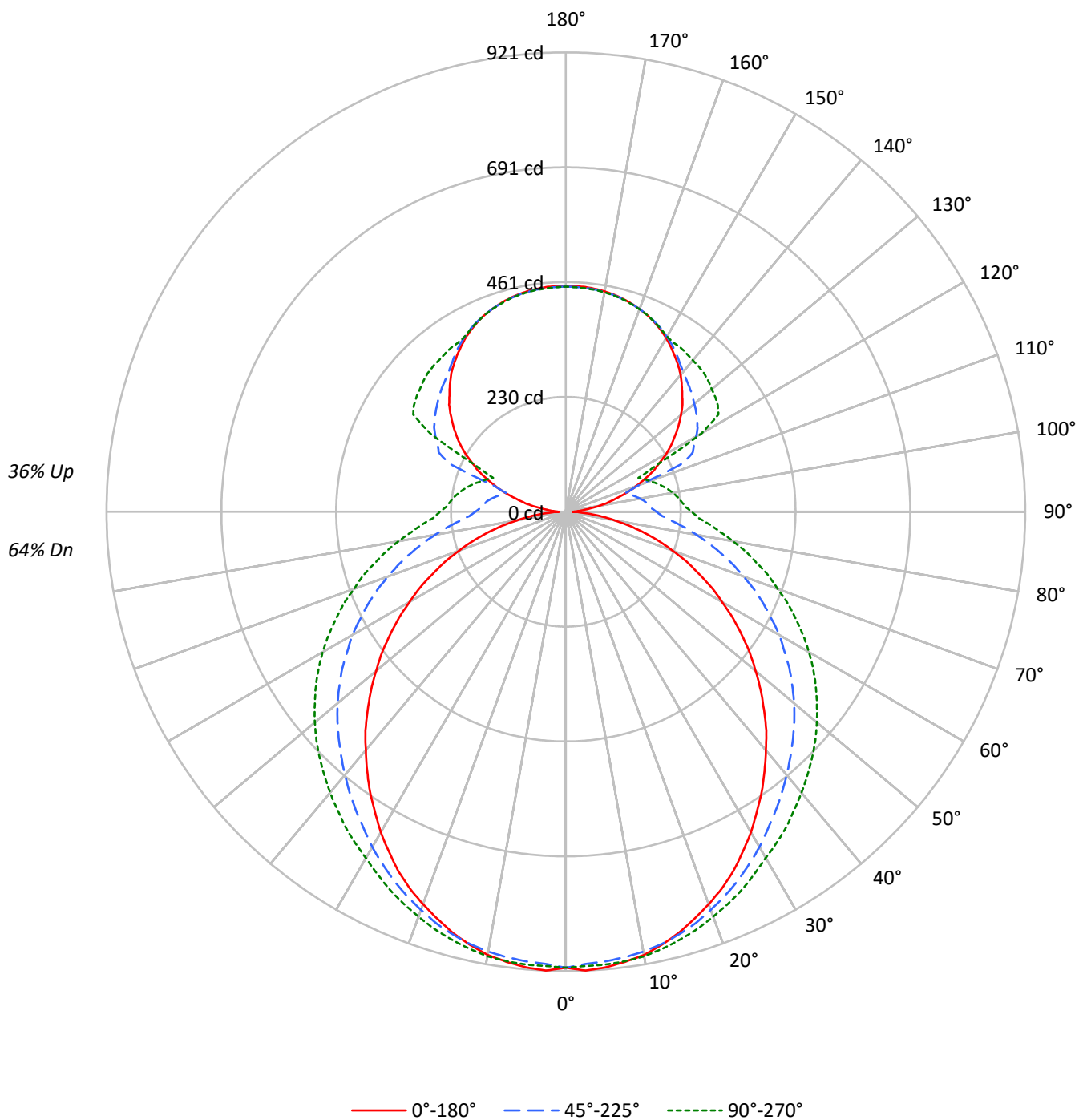
Lumens per Lamp: N/A
Luminaire Lumens: 4812.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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

TEST NUMBER: P1009495

CATALOG NUMBER: S122DIP-B865D330UB35-4F0-XX-W2A-D

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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69
1	99	94	89	85	93	88	84	80	77	74	71	67	65	63	58	56	55
2	89	81	74	68	83	76	70	64	67	62	57	58	54	51	50	47	45
3	81	70	62	56	76	66	59	53	58	52	47	51	46	42	44	40	37
4	74	62	53	47	69	58	50	44	51	45	40	45	40	36	39	35	32
5	68	55	46	40	63	52	44	38	46	39	34	40	35	31	35	31	27
6	62	49	41	34	58	46	38	33	41	35	30	36	31	27	31	27	24
7	58	44	36	30	54	42	34	29	37	31	26	33	27	23	29	24	21
8	54	40	32	26	50	38	31	25	34	28	23	30	25	21	26	22	19
9	50	37	29	23	47	35	28	23	31	25	21	28	22	19	24	20	17
10	47	34	26	21	44	32	25	20	29	23	19	25	20	17	22	18	15

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

TEST NUMBER: P1009495

CATALOG NUMBER: S122DIP-B865D330UB35-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.8
10°-20°	248.5	5.2
20°-30°	376.6	7.8
30°-40°	458.6	9.5
40°-50°	493.4	10.3
50°-60°	479.2	10.0
60°-70°	418.5	8.7
70°-80°	322.1	6.7
80°-90°	216.5	4.5
90°-100°	163.7	3.4
100°-110°	164.2	3.4
110°-120°	218.9	4.5
120°-130°	284.0	5.9
130°-140°	276.0	5.7
140°-150°	243.8	5.1
150°-160°	193.7	4.0
160°-170°	124.8	2.6
170°-180°	43.0	0.9
0°-30°	711.8	14.8
0°-40°	1170.4	24.3
0°-60°	2142.9	44.5
0°-90°	3099.9	64.4
90°-120°	546.8	11.4
90°-150°	1350.5	28.1
90°-180°	1712.0	35.6
0°-180°	4812.0	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	94	181	236	253	10
95°	32	83	165	217	233	33
105°	106	154	134	184	200	114
115°	193	213	281	170	161	190
125°	268	272	321	359	372	240
135°	330	335	351	382	392	255
145°	381	381	386	396	402	239
155°	420	417	421	423	420	193
165°	442	440	441	444	441	125
175°	452	450	451	453	450	43
180°	451	451	451	451	451	

TEST NUMBER: P1009495

CATALOG NUMBER: S122DIP-B865D330UB35-4F0-XX-W2A-D

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°	13.5	94.0	181.4	236.1	252.6
92.5°	20.1	89.0	170.8	223.1	239.3
95°	31.8	83.4	165.1	217.1	232.6
97.5°	47.5	77.6	159.8	209.7	226.0
100°	67.1	71.4	151.1	202.7	218.0
102.5°	87.3	130.4	142.5	193.8	209.3
105°	105.9	154.1	133.8	183.8	199.7
107.5°	129.1	169.0	125.3	173.9	189.8
110°	150.0	183.3	153.9	163.6	179.5

TEST NUMBER: P1009495

CATALOG NUMBER: S122DIP-B865D330UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	170.9	198.0	253.3	154.9	170.5
115°	193.1	213.2	281.0	169.5	160.6
117.5°	211.1	228.2	289.3	282.4	210.1
120°	232.6	242.8	301.7	342.7	313.1
122.5°	250.9	257.4	313.0	350.7	362.9
125°	268.1	272.4	321.0	359.1	371.9
127.5°	285.1	288.4	329.1	365.4	377.7
130°	301.1	305.0	336.4	371.8	382.1
132.5°	317.4	320.4	343.9	377.3	387.6
135°	329.9	335.1	351.3	382.4	392.3
137.5°	344.2	348.1	358.0	386.5	394.8
140°	358.3	359.6	365.8	389.9	396.3
142.5°	370.0	371.0	375.3	393.8	398.7
145°	381.1	380.8	386.4	396.5	401.6
147.5°	391.9	390.9	396.5	399.4	402.1
150°	402.4	400.1	405.3	407.3	405.6
152.5°	411.2	408.6	413.5	415.4	413.1
155°	419.7	416.7	420.7	422.6	420.0
157.5°	426.5	423.9	426.9	429.1	426.5
160°	432.4	430.5	432.4	434.4	432.1
162.5°	437.6	435.7	437.3	439.6	436.7
165°	442.2	440.2	441.2	443.5	441.2
167.5°	445.8	443.8	444.8	447.1	444.2
170°	448.7	446.8	447.4	449.7	446.8
172.5°	450.7	448.7	449.4	451.7	448.7
175°	452.3	450.0	450.7	453.0	449.7
177.5°	453.0	450.7	451.0	453.3	450.4
180°	451.4	451.4	451.4	451.4	451.4

(END OF REPORT)