

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: P1009496

Luminaire Tested: S122DIP-B865D330UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009496
REPORT IS A COMBINATION OF REPORTS P984815 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-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

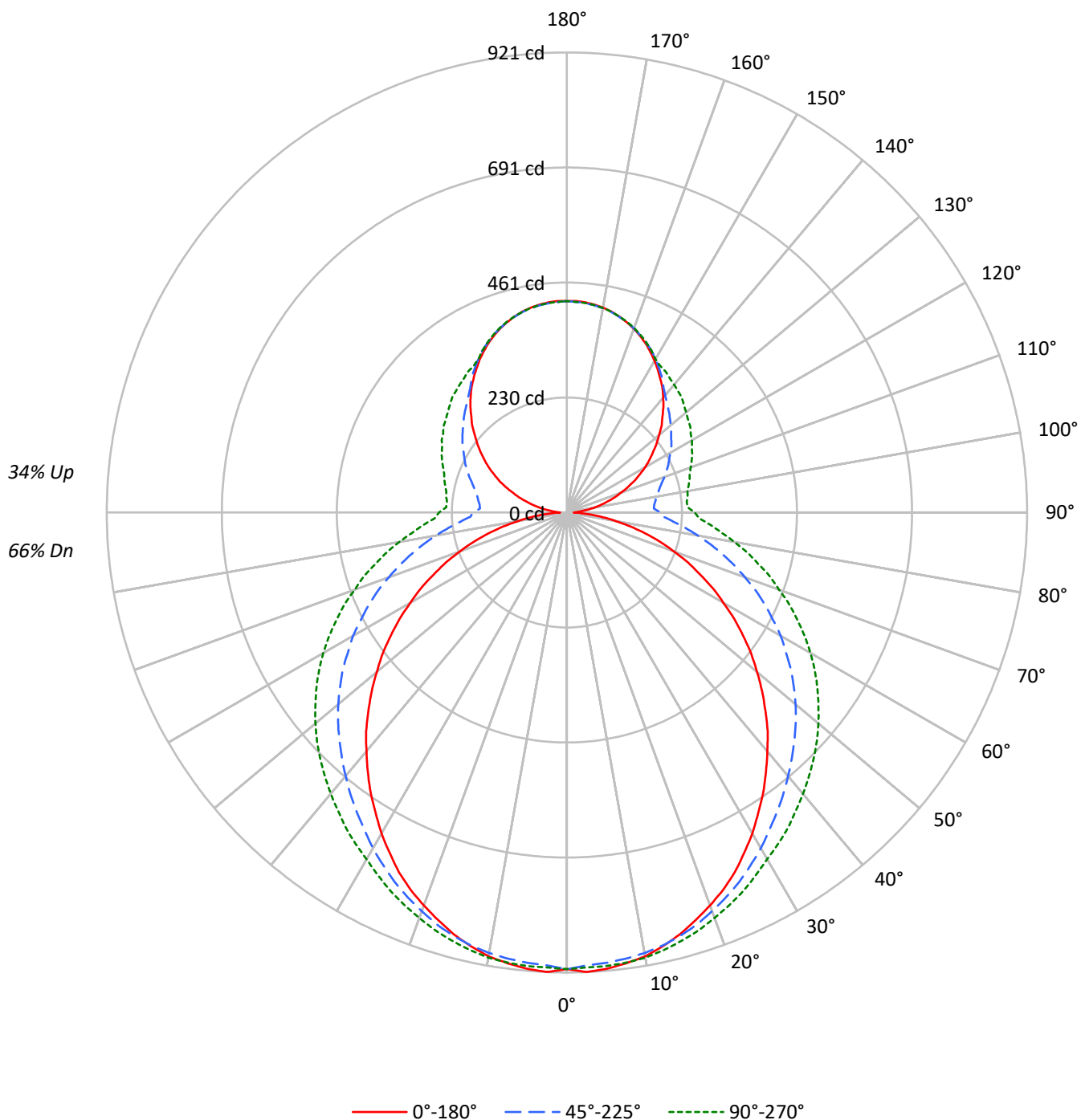
Lumens per Lamp: N/A
Luminaire Lumens: 4672.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	50	30	10
RCR																				
0	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71			66
1	99	94	89	85	93	89	84	81	78	75	72	69	66	64	60	58	56			52
2	90	81	74	68	84	76	70	65	67	62	58	59	55	52	51	48	46			42
3	81	71	62	56	76	67	59	53	59	53	48	52	47	43	45	41	38			34
4	74	62	53	47	69	59	51	45	52	45	40	46	40	36	40	36	32			29
5	68	55	46	40	64	52	44	38	46	40	35	41	35	31	36	31	28			25
6	63	49	41	34	59	47	39	33	42	35	30	37	31	27	32	28	24			22
7	58	45	36	30	54	42	34	29	38	31	26	33	28	24	29	25	21			19
8	54	41	32	26	50	38	31	25	34	28	23	31	25	21	27	22	19			17
9	50	37	29	24	47	35	28	23	31	25	21	28	23	19	25	20	17			15
10	47	34	26	21	44	32	25	20	29	23	19	26	21	17	23	19	16			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	1.9
10°-20°	248.5	5.3
20°-30°	376.6	8.1
30°-40°	458.6	9.8
40°-50°	493.4	10.6
50°-60°	479.2	10.3
60°-70°	418.5	9.0
70°-80°	322.1	6.9
80°-90°	216.9	4.6
90°-100°	175.0	3.7
100°-110°	191.9	4.1
110°-120°	214.1	4.6
120°-130°	227.2	4.9
130°-140°	226.9	4.9
140°-150°	208.9	4.5
150°-160°	172.9	3.7
160°-170°	114.7	2.5
170°-180°	40.1	0.9
0°-30°	711.8	15.2
0°-40°	1170.4	25.1
0°-60°	2142.9	45.9
0°-90°	3100.3	66.4
90°-120°	581.0	12.4
90°-150°	1244.0	26.6
90°-180°	1572.0	33.6
0°-180°	4672.0	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	95	187	240	256	10
95°	29	95	175	226	241	29
105°	83	123	192	240	254	89
115°	148	165	224	263	277	146
125°	210	214	255	290	301	189
135°	270	274	288	316	325	209
145°	326	329	331	339	344	204
155°	373	374	375	377	376	172
165°	406	406	406	408	406	115
175°	422	421	421	423	421	40
180°	423	423	423	423	423	

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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°	13.6	94.7	187.4	239.7	255.9
92.5°	19.8	92.8	174.1	226.0	241.9
95°	29.2	95.0	175.2	225.5	240.7
97.5°	40.4	100.5	178.8	227.8	243.7
100°	54.6	106.5	181.8	230.8	245.0
102.5°	68.2	114.2	187.1	235.2	249.4
105°	83.4	122.8	192.4	239.6	254.2
107.5°	99.8	133.0	199.3	244.7	257.5
110°	114.2	142.8	207.7	250.1	263.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	131.3	154.7	215.2	256.5	270.4
115°	148.1	164.8	223.7	263.1	276.6
117.5°	163.6	177.0	230.9	269.6	281.7
120°	180.4	188.5	238.7	275.8	289.2
122.5°	195.7	200.6	247.8	282.5	293.7
125°	210.4	213.6	254.9	289.7	301.2
127.5°	226.1	228.7	263.1	294.8	305.6
130°	240.7	244.1	271.2	302.2	311.4
132.5°	257.2	259.4	279.7	308.4	317.9
135°	270.1	274.1	288.1	315.5	325.0
137.5°	285.8	289.1	296.4	321.2	329.1
140°	299.8	301.7	306.1	327.3	333.8
142.5°	314.0	316.0	317.0	333.3	338.5
145°	326.3	328.8	331.0	339.2	344.5
147.5°	338.4	341.7	343.1	345.1	347.7
150°	350.9	353.1	354.5	355.6	354.5
152.5°	362.0	364.2	365.9	367.4	365.9
155°	373.1	374.1	375.2	377.0	375.9
157.5°	382.7	383.4	384.1	386.6	384.9
160°	391.3	392.0	392.4	394.5	393.1
162.5°	399.1	399.1	399.5	402.0	400.2
165°	405.9	405.6	405.6	408.1	406.3
167.5°	412.0	410.9	410.9	413.4	411.6
170°	416.6	415.6	415.2	417.7	415.6
172.5°	419.8	418.8	418.4	420.9	418.8
175°	422.3	421.3	420.6	423.1	420.9
177.5°	423.8	422.7	422.0	424.1	422.0
180°	423.1	423.1	423.1	423.1	423.1

(END OF REPORT)