

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: P1009540

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009540
REPORT IS A COMBINATION OF REPORTS P984874 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-D
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

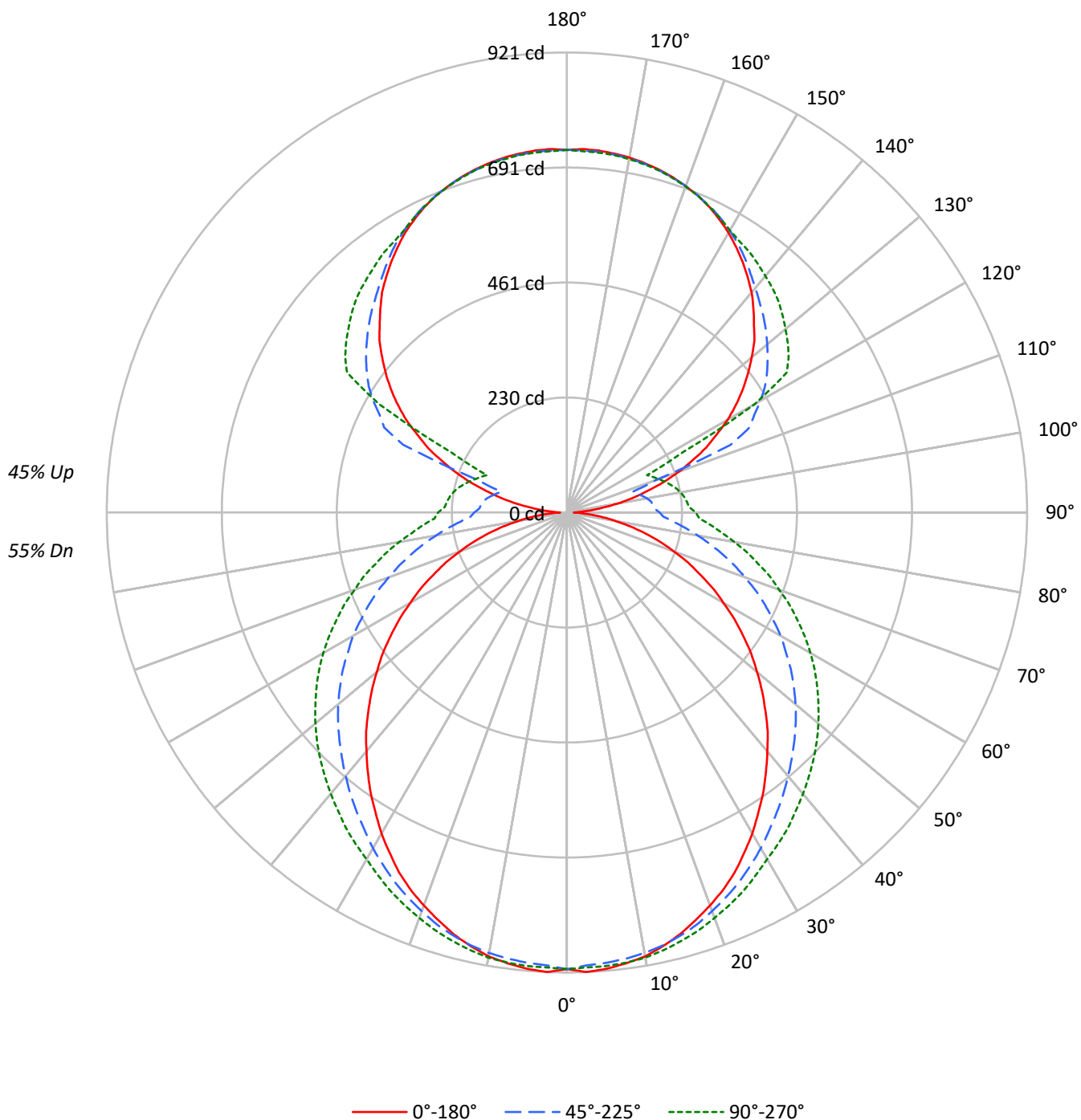
Lumens per Lamp: N/A
Luminaire Lumens: 5617.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	97	92	88	84	90	86	82	78	73	70	67	62	60	57	51	50	48
2	88	80	73	67	81	74	68	63	63	59	55	53	50	47	44	42	39
3	80	69	61	55	74	64	57	52	55	50	45	47	42	39	39	35	33
4	73	61	53	46	67	57	49	43	49	43	38	41	37	33	34	31	28
5	67	54	46	39	61	50	43	37	43	37	32	37	32	28	31	27	24
6	61	49	40	34	57	45	37	32	39	33	28	33	28	24	28	24	21
7	57	44	35	29	52	41	33	28	35	29	25	30	25	21	25	21	18
8	53	40	32	26	49	37	30	25	32	26	22	27	23	19	23	19	16
9	49	36	28	23	45	34	27	22	29	24	19	25	20	17	21	17	15
10	46	33	26	21	42	31	24	20	27	21	17	23	19	15	20	16	13

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	1.5
10°-20°	248.5	4.4
20°-30°	376.6	6.7
30°-40°	458.6	8.2
40°-50°	493.4	8.8
50°-60°	479.2	8.5
60°-70°	418.5	7.4
70°-80°	322.1	5.7
80°-90°	217.0	3.9
90°-100°	172.8	3.1
100°-110°	197.9	3.5
110°-120°	308.4	5.5
120°-130°	432.4	7.7
130°-140°	433.6	7.7
140°-150°	390.2	6.9
150°-160°	311.5	5.5
160°-170°	200.7	3.6
170°-180°	69.1	1.2
0°-30°	711.8	12.7
0°-40°	1170.4	20.8
0°-60°	2142.9	38.2
0°-90°	3100.4	55.2
90°-120°	679.0	12.1
90°-150°	1935.3	34.5
90°-180°	2517.0	44.8
0°-180°	5617.0	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	96	185	241	258	11
95°	45	90	173	226	241	49
105°	166	220	146	198	215	178
115°	307	331	404	200	177	302
125°	430	436	489	528	542	384
135°	530	538	556	589	599	410
145°	613	612	621	633	637	384
155°	675	670	676	680	675	311
165°	711	708	710	713	710	201
175°	727	724	725	728	723	69
180°	726	726	726	726	726	

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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°	13.7	96.4	185.4	241.0	258.0
92.5°	25.0	93.1	175.6	228.3	244.7
95°	44.7	89.7	172.9	225.8	241.2
97.5°	70.7	84.6	169.9	220.5	236.9
100°	102.3	79.3	162.4	215.6	231.3
102.5°	135.5	178.3	154.2	207.7	223.8
105°	166.2	220.4	145.9	198.1	214.8
107.5°	203.5	248.5	137.8	188.6	205.3
110°	237.9	275.5	188.6	178.5	195.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.6	302.2	354.2	170.2	186.4
115°	307.3	330.8	403.5	200.1	176.9
117.5°	337.0	358.1	422.6	387.3	262.9
120°	371.6	384.8	447.2	490.6	434.3
122.5°	401.0	410.7	470.2	509.2	521.6
125°	429.6	436.4	488.8	528.2	541.7
127.5°	456.9	462.9	506.6	544.9	557.4
130°	482.6	489.7	523.3	560.9	570.9
132.5°	508.9	514.4	540.1	575.3	585.4
135°	529.6	538.0	556.0	589.1	598.6
137.5°	552.7	559.0	570.9	601.3	609.1
140°	575.3	578.2	586.6	612.5	617.9
142.5°	594.2	596.6	603.4	623.5	627.5
145°	612.9	612.3	621.3	632.8	636.9
147.5°	630.2	628.6	637.5	641.5	643.4
150°	647.0	643.3	651.7	654.9	652.3
152.5°	661.2	657.0	664.9	668.0	664.3
155°	674.8	670.1	676.4	679.6	675.4
157.5°	685.9	681.7	686.4	690.1	685.9
160°	695.3	692.2	695.3	698.5	694.8
162.5°	703.7	700.6	703.2	706.9	702.1
165°	711.1	707.9	709.5	713.2	709.5
167.5°	716.8	713.7	715.3	718.9	714.2
170°	721.6	718.4	719.5	723.2	718.4
172.5°	724.7	721.6	722.6	726.3	721.6
175°	727.4	723.7	724.7	728.4	723.2
177.5°	728.4	724.7	725.3	728.9	724.2
180°	725.8	725.8	725.8	725.8	725.8

(END OF REPORT)