

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: P1009478

Luminaire Tested: S122DIP-B865D330UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009478
REPORT IS A COMBINATION OF REPORTS P984782 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D330UB27-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

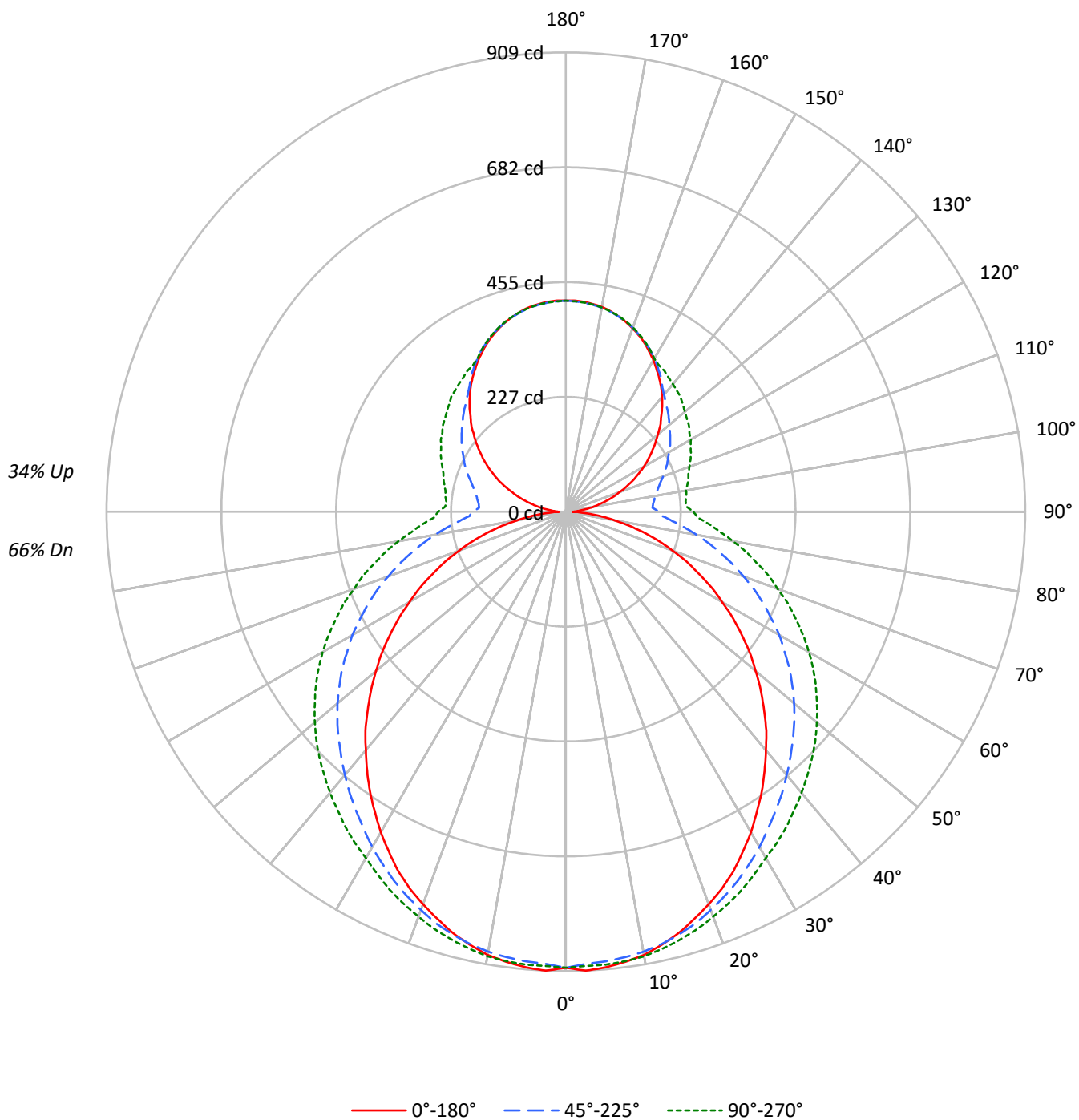
Lumens per Lamp: N/A
Luminaire Lumens: 4612.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
RCR																	
0	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71
1	99	94	89	85	93	89	84	81	78	75	72	69	66	64	60	58	56
2	90	81	74	68	84	76	70	65	67	62	58	59	55	52	51	48	46
3	81	71	62	56	76	67	59	53	59	53	48	52	47	43	45	41	38
4	74	62	53	47	69	59	51	45	52	45	40	46	40	36	40	36	32
5	68	55	46	40	64	52	44	38	46	40	35	41	35	31	36	31	28
6	63	49	41	34	59	47	39	33	42	35	30	37	31	27	32	28	24
7	58	45	36	30	54	42	34	29	38	31	26	33	28	24	29	25	21
8	54	40	32	26	50	38	31	25	34	28	23	31	25	21	27	22	19
9	50	37	29	24	47	35	28	23	31	25	21	28	23	19	25	20	17
10	47	34	26	21	44	32	25	20	29	23	19	26	21	17	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14283	14283	14283
5°	14349	13674	13596
10°	14252	13200	13008
15°	14050	12710	12404
20°	13797	12196	11829
25°	13546	11704	11310
30°	13195	11202	10795
35°	12840	10720	10417
40°	12465	10303	10041
45°	12110	9925	9714
50°	11727	9576	9390
55°	11325	9205	9062
60°	10833	8819	8716
65°	10320	8376	8318
70°	9740	7899	7888
75°	9001	7423	7484
80°	7832	6928	7066
85°	6653	6461	6704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12110 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.9
10°-20°	245.3	5.3
20°-30°	371.7	8.1
30°-40°	452.7	9.8
40°-50°	487.0	10.6
50°-60°	473.0	10.3
60°-70°	413.1	9.0
70°-80°	317.9	6.9
80°-90°	214.1	4.6
90°-100°	172.7	3.7
100°-110°	189.4	4.1
110°-120°	211.4	4.6
120°-130°	224.3	4.9
130°-140°	224.1	4.9
140°-150°	206.3	4.5
150°-160°	170.7	3.7
160°-170°	113.2	2.5
170°-180°	39.6	0.9
0°-30°	702.6	15.2
0°-40°	1155.3	25.0
0°-60°	2115.3	45.9
0°-90°	3060.3	66.4
90°-120°	573.5	12.4
90°-150°	1228.2	26.6
90°-180°	1552.0	33.7
0°-180°	4612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	905	901	893	901	900	86
15°	863	866	866	878	876	243
25°	785	794	806	821	825	361
35°	676	698	723	752	761	423
45°	554	590	636	676	689	428
55°	425	472	540	587	604	380
65°	290	354	432	485	502	288
75°	161	234	318	374	391	170
85°	47	128	212	267	285	50
90°	14	94	185	236	253	10
95°	29	94	173	223	238	29
105°	82	121	190	236	251	87
115°	146	163	221	260	273	144
125°	208	211	252	286	297	186
135°	267	271	284	312	321	206
145°	322	325	327	335	340	202
155°	368	369	370	372	371	170
165°	401	400	400	403	401	113
175°	417	416	415	418	416	40
180°	418	418	418	418	418	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.3	902.3	902.3	902.3	902.3
2.5°	908.9	905.0	895.8	902.3	899.7
5°	905.0	901.0	893.2	901.0	899.7
7.5°	898.4	895.8	889.3	898.4	897.1
10°	890.6	888.0	884.0	894.5	893.2
12.5°	877.5	878.8	876.2	886.6	885.3
15°	863.1	865.7	865.7	877.5	876.2
17.5°	844.8	850.0	854.0	865.7	865.7
20°	826.5	833.0	838.3	852.6	852.6
22.5°	806.9	814.7	822.6	836.9	839.6
25°	784.6	793.8	805.6	821.3	825.2
27.5°	758.5	772.9	785.9	805.6	808.2
30°	732.3	749.3	766.3	787.3	791.2
32.5°	703.6	723.2	744.1	768.9	776.8
35°	676.1	698.3	723.2	751.9	761.1
37.5°	646.0	670.9	702.3	733.6	742.8
40°	615.9	644.7	680.0	714.0	725.8
42.5°	587.2	615.9	657.8	695.7	707.5
45°	554.5	589.8	635.6	676.1	689.2
47.5°	523.1	561.0	613.3	655.2	669.6
50°	490.4	530.9	589.8	634.3	648.6
52.5°	459.0	502.2	564.9	610.7	626.4
55°	425.0	472.1	540.1	587.2	604.2
57.5°	392.3	444.6	512.6	563.6	580.6
60°	357.0	413.2	487.8	537.5	555.8
62.5°	325.6	384.5	459.0	512.6	529.6
65°	290.3	354.4	431.6	485.2	502.2
67.5°	258.9	325.6	404.1	457.7	476.0
70°	224.9	292.9	374.0	430.2	445.9
72.5°	193.5	264.2	346.5	401.5	421.1
75°	160.9	234.1	317.8	374.0	391.0
77.5°	129.5	205.3	290.3	346.5	364.9
80°	98.1	177.9	262.9	317.8	336.1
82.5°	71.9	150.4	236.7	291.6	308.6
85°	47.1	128.2	211.9	266.8	285.1
87.5°	28.8	107.2	190.9	244.5	261.5
90°	13.5	93.5	184.9	236.5	252.6
92.5°	19.6	91.7	171.8	223.2	238.8
95°	28.8	93.8	173.0	222.7	237.7
97.5°	39.9	99.2	176.4	224.8	240.5
100°	54.0	105.1	179.4	227.8	241.8
102.5°	67.4	112.7	184.7	232.1	246.2
105°	82.3	121.3	190.0	236.5	250.9
107.5°	98.5	131.3	196.7	241.6	254.2
110°	112.7	141.0	205.1	246.9	260.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	129.6	152.7	212.5	253.3	266.9
115°	146.2	162.7	220.9	259.8	273.1
117.5°	161.5	174.8	227.9	266.1	278.1
120°	178.0	186.1	235.6	272.2	285.6
122.5°	193.2	198.0	244.6	278.9	290.0
125°	207.7	210.9	251.8	286.0	297.4
127.5°	223.3	225.8	259.7	291.0	301.8
130°	237.7	241.0	267.8	298.5	307.5
132.5°	253.9	256.2	276.1	304.4	313.9
135°	266.7	270.6	284.4	311.5	320.9
137.5°	282.2	285.4	292.6	317.2	324.8
140°	296.0	297.9	302.2	323.1	329.6
142.5°	310.1	312.0	313.0	329.1	334.2
145°	322.2	324.6	326.8	334.9	340.1
147.5°	334.2	337.3	338.7	340.7	343.2
150°	346.5	348.6	350.0	351.1	350.0
152.5°	357.4	359.5	361.3	362.7	361.3
155°	368.4	369.4	370.5	372.2	371.2
157.5°	377.9	378.6	379.3	381.7	380.0
160°	386.3	387.0	387.4	389.5	388.1
162.5°	394.1	394.1	394.4	396.9	395.1
165°	400.8	400.4	400.4	402.9	401.1
167.5°	406.8	405.7	405.7	408.2	406.4
170°	411.4	410.3	409.9	412.4	410.3
172.5°	414.5	413.5	413.1	415.6	413.5
175°	417.0	415.9	415.2	417.7	415.6
177.5°	418.4	417.3	416.6	418.8	416.6
180°	417.7	417.7	417.7	417.7	417.7

(END OF REPORT)