

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: P1009568

Luminaire Tested: S122DIP-B865D725UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009568
REPORT IS A COMBINATION OF REPORTS P984902 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D725UB27-4F0-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

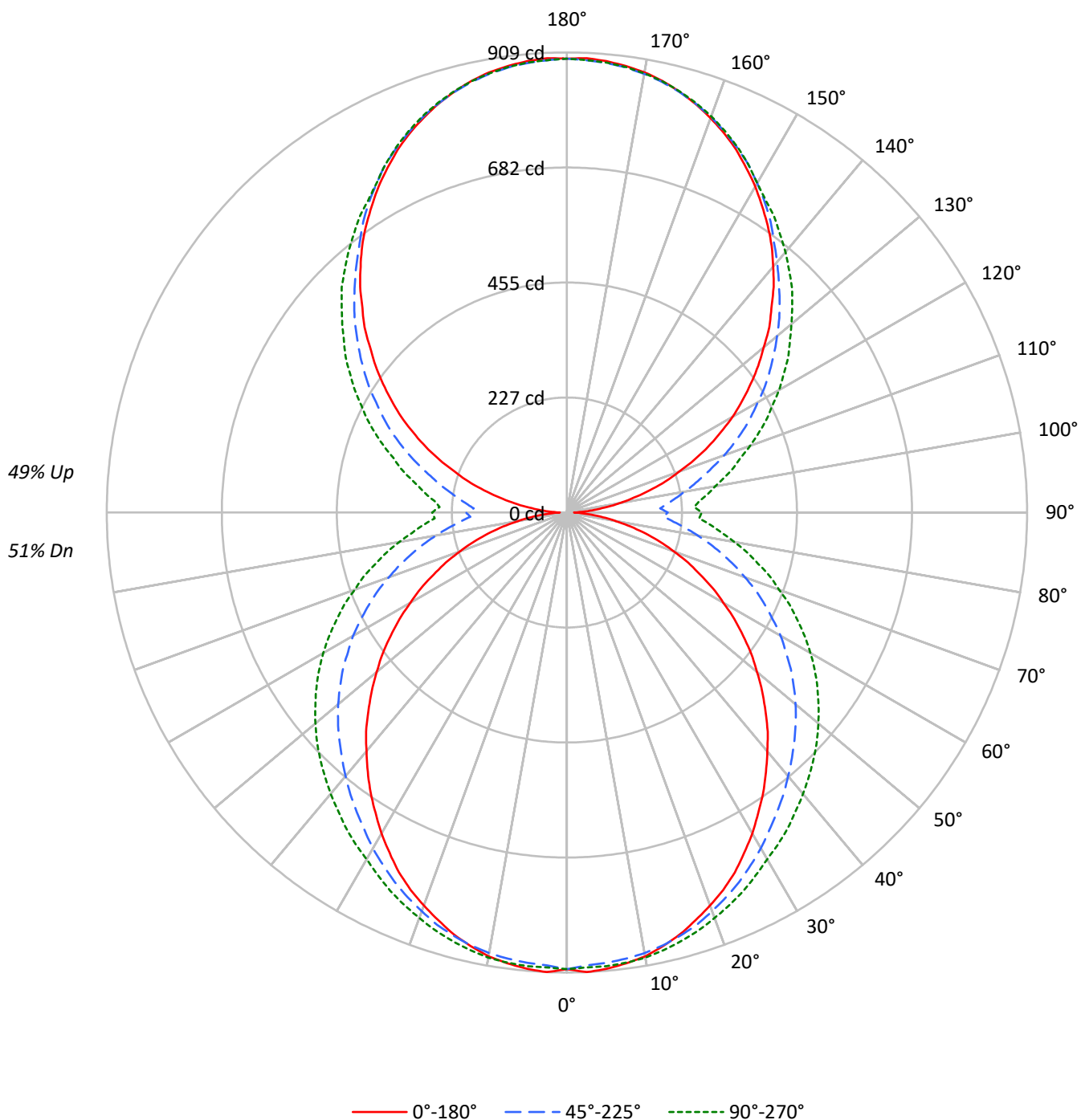
Lumens per Lamp: N/A
Luminaire Lumens: 5953.0 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	97	92	87	83	89	85	81	77	71	69	66	59	57	55	48	47	45
2	87	79	72	67	80	73	67	62	62	57	53	51	48	45	42	39	37
3	79	69	61	55	73	64	57	51	54	49	44	45	41	37	36	33	31
4	72	61	52	46	66	56	49	43	48	42	37	40	35	32	32	29	26
5	66	54	45	39	61	50	42	37	42	36	32	35	31	27	29	25	23
6	61	48	40	34	56	45	37	32	38	32	28	32	27	24	26	22	20
7	56	43	35	29	52	40	33	28	34	28	24	29	24	21	24	20	17
8	52	39	31	26	48	37	29	24	31	25	21	26	22	18	22	18	15
9	48	36	28	23	45	33	26	22	29	23	19	24	20	16	20	16	14
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	19	15	13

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	1.4
10°-20°	245.3	4.1
20°-30°	371.7	6.2
30°-40°	452.7	7.6
40°-50°	487.0	8.2
50°-60°	473.0	7.9
60°-70°	413.1	6.9
70°-80°	317.9	5.3
80°-90°	215.5	3.6
90°-100°	202.4	3.4
100°-110°	283.6	4.8
110°-120°	372.6	6.3
120°-130°	436.4	7.3
130°-140°	462.1	7.8
140°-150°	439.7	7.4
150°-160°	366.5	6.2
160°-170°	243.1	4.1
170°-180°	84.9	1.4
0°-30°	702.6	11.8
0°-40°	1155.3	19.4
0°-60°	2115.3	35.5
0°-90°	3061.7	51.4
90°-120°	858.7	14.4
90°-150°	2196.8	36.9
90°-180°	2891.0	48.6
0°-180°	5953.0	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	99	199	250	266	12
95°	50	119	199	248	263	52
105°	169	210	279	326	341	179
115°	308	327	384	423	435	304
125°	443	450	490	523	534	396
135°	571	580	594	621	629	442
145°	692	697	702	710	714	433
155°	791	793	795	799	797	364
165°	860	860	860	865	861	243
175°	895	893	892	897	892	85
180°	897	897	897	897	897	

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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°	13.9	98.7	199.1	249.9	266.3
92.5°	28.5	103.8	184.4	236.1	251.7
95°	49.9	118.8	198.8	248.5	262.7
97.5°	75.0	138.1	216.9	265.3	281.0
100°	105.3	159.7	235.2	283.6	297.2
102.5°	135.7	183.4	257.1	304.9	318.6
105°	169.2	209.5	279.0	326.2	340.6
107.5°	204.0	238.5	303.9	349.1	359.7
110°	236.0	266.8	330.9	372.7	384.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	272.4	297.9	357.2	396.9	409.7
115°	307.9	326.9	384.3	422.7	434.8
117.5°	342.2	358.8	409.9	446.8	457.6
120°	377.8	389.1	435.4	472.0	484.1
122.5°	410.3	419.2	463.8	496.8	507.1
125°	443.1	449.9	489.5	522.6	533.5
127.5°	476.4	483.4	515.7	545.4	554.9
130°	507.4	516.0	541.9	571.8	579.2
132.5°	542.2	548.5	568.9	595.2	603.4
135°	571.2	579.5	594.1	620.8	629.0
137.5°	604.5	611.3	619.3	643.5	649.5
140°	634.0	639.5	645.9	666.8	671.7
142.5°	664.3	669.8	672.1	688.5	692.0
145°	691.8	697.1	701.6	710.2	713.7
147.5°	717.5	724.3	727.3	730.1	731.0
150°	744.0	748.5	751.5	753.8	751.5
152.5°	767.4	772.0	775.8	778.8	775.8
155°	790.9	793.2	795.4	799.2	797.0
157.5°	811.3	812.8	814.4	819.7	815.9
160°	829.5	831.0	831.8	836.3	833.3
162.5°	846.2	846.2	846.9	852.2	848.4
165°	860.5	859.8	859.8	865.1	861.3
167.5°	873.4	871.1	871.1	876.4	872.6
170°	883.2	881.0	880.2	885.5	881.0
172.5°	890.0	887.8	887.0	892.3	887.8
175°	895.3	893.1	891.6	896.9	892.3
177.5°	898.4	896.1	894.6	899.1	894.6
180°	896.9	896.9	896.9	896.9	896.9

(END OF REPORT)