

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: P1009614

Luminaire Tested: S122DIP-B865D925UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009614
REPORT IS A COMBINATION OF REPORTS P984963 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D925UB27-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

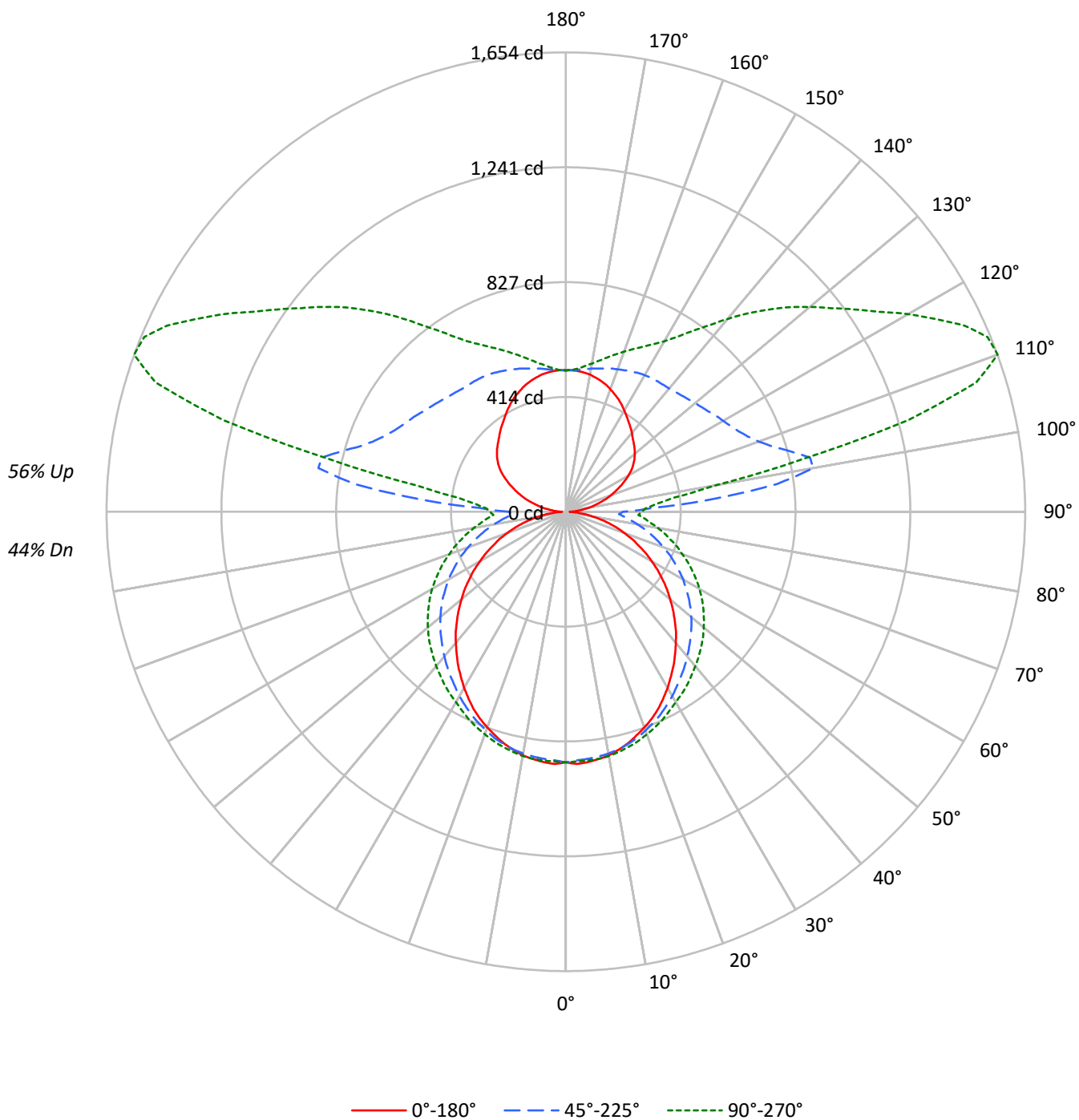
Lumens per Lamp: N/A
Luminaire Lumens: 6998.1 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	50	50	50
1	95	90	86	82	87	82	79	75	68	65	63	55	53	51	42	41	40
2	86	78	71	66	78	71	66	61	59	55	51	47	44	42	37	34	33
3	78	68	60	54	71	62	56	50	51	46	42	41	38	35	32	29	27
4	71	60	52	45	65	55	48	42	45	40	36	37	32	29	28	25	23
5	65	53	45	39	59	49	41	36	40	35	30	33	28	25	25	22	20
6	60	48	39	33	54	44	36	31	36	31	26	29	25	22	23	20	17
7	55	43	35	29	50	39	32	27	33	27	23	27	22	19	21	18	15
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	14
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	18	14	12
10	44	32	25	20	41	30	23	19	25	20	16	21	16	14	16	13	11

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	1.2
10°-20°	245.3	3.5
20°-30°	371.7	5.3
30°-40°	452.7	6.5
40°-50°	487.0	7.0
50°-60°	473.0	6.8
60°-70°	413.1	5.9
70°-80°	317.9	4.5
80°-90°	216.2	3.1
90°-100°	353.4	5.1
100°-110°	805.4	11.5
110°-120°	804.7	11.5
120°-130°	642.9	9.2
130°-140°	501.5	7.2
140°-150°	369.1	5.3
150°-160°	257.5	3.7
160°-170°	151.6	2.2
170°-180°	49.3	0.7
0°-30°	702.6	10.0
0°-40°	1155.3	16.5
0°-60°	2115.3	30.2
0°-90°	3062.4	43.8
90°-120°	1963.6	28.1
90°-150°	3477.1	49.7
90°-180°	3936.0	56.2
0°-180°	6998.1	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	102	206	257	273	11
95°	45	156	534	345	328	44
105°	126	225	838	1456	1277	134
115°	216	286	686	1371	1585	214
125°	296	350	628	1095	1270	264
135°	346	413	591	895	1029	268
145°	394	453	574	720	794	247
155°	448	483	557	630	655	206
165°	488	503	534	566	575	138
175°	508	509	513	520	518	48
180°	509	509	509	509	509	

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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°	14.1	102.2	205.9	256.7	272.9
92.5°	26.5	127.6	311.8	281.4	287.3
95°	44.8	156.2	534.4	345.1	327.5
97.5°	60.1	176.6	767.2	480.6	392.4
100°	84.6	193.7	904.8	758.7	544.2
102.5°	105.8	209.7	900.4	1148.4	866.9
105°	126.0	224.8	838.4	1455.8	1276.7
107.5°	149.5	239.7	780.3	1560.5	1549.4
110°	171.7	255.3	739.2	1531.4	1654.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	193.3	271.1	708.4	1459.1	1643.4
115°	215.8	285.6	685.9	1371.2	1585.0
117.5°	238.0	301.4	668.9	1288.0	1502.0
120°	259.6	316.8	654.2	1211.5	1423.3
122.5°	280.2	333.9	642.4	1150.9	1339.0
125°	296.5	350.4	628.4	1095.2	1270.1
127.5°	311.2	367.2	617.6	1045.1	1203.8
130°	323.9	383.4	607.8	995.8	1147.3
132.5°	335.7	399.0	598.9	945.0	1090.2
135°	346.1	412.8	591.4	895.1	1029.0
137.5°	356.9	424.6	584.8	844.9	968.6
140°	369.7	434.0	578.7	799.4	906.3
142.5°	382.4	442.8	576.1	756.8	845.1
145°	393.8	452.6	574.1	720.5	794.2
147.5°	407.5	460.4	571.2	689.0	746.8
150°	421.3	468.3	568.2	666.2	708.3
152.5°	435.0	476.2	563.3	648.0	679.9
155°	447.7	483.4	557.4	630.4	655.4
157.5°	458.5	489.4	551.6	613.8	633.9
160°	469.3	495.2	545.7	597.1	613.3
162.5°	480.0	499.6	540.8	581.4	593.7
165°	487.9	502.6	533.9	566.2	575.1
167.5°	494.7	505.6	528.1	552.6	557.4
170°	501.6	507.0	523.2	539.8	541.8
172.5°	505.5	508.4	517.3	528.6	529.0
175°	508.5	509.0	513.4	519.7	518.3
177.5°	510.4	509.4	509.4	513.4	510.4
180°	509.4	509.4	509.4	509.4	509.4

(END OF REPORT)