

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: P1009612

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009612
REPORT IS A COMBINATION OF REPORTS P984961 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D925UB27-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

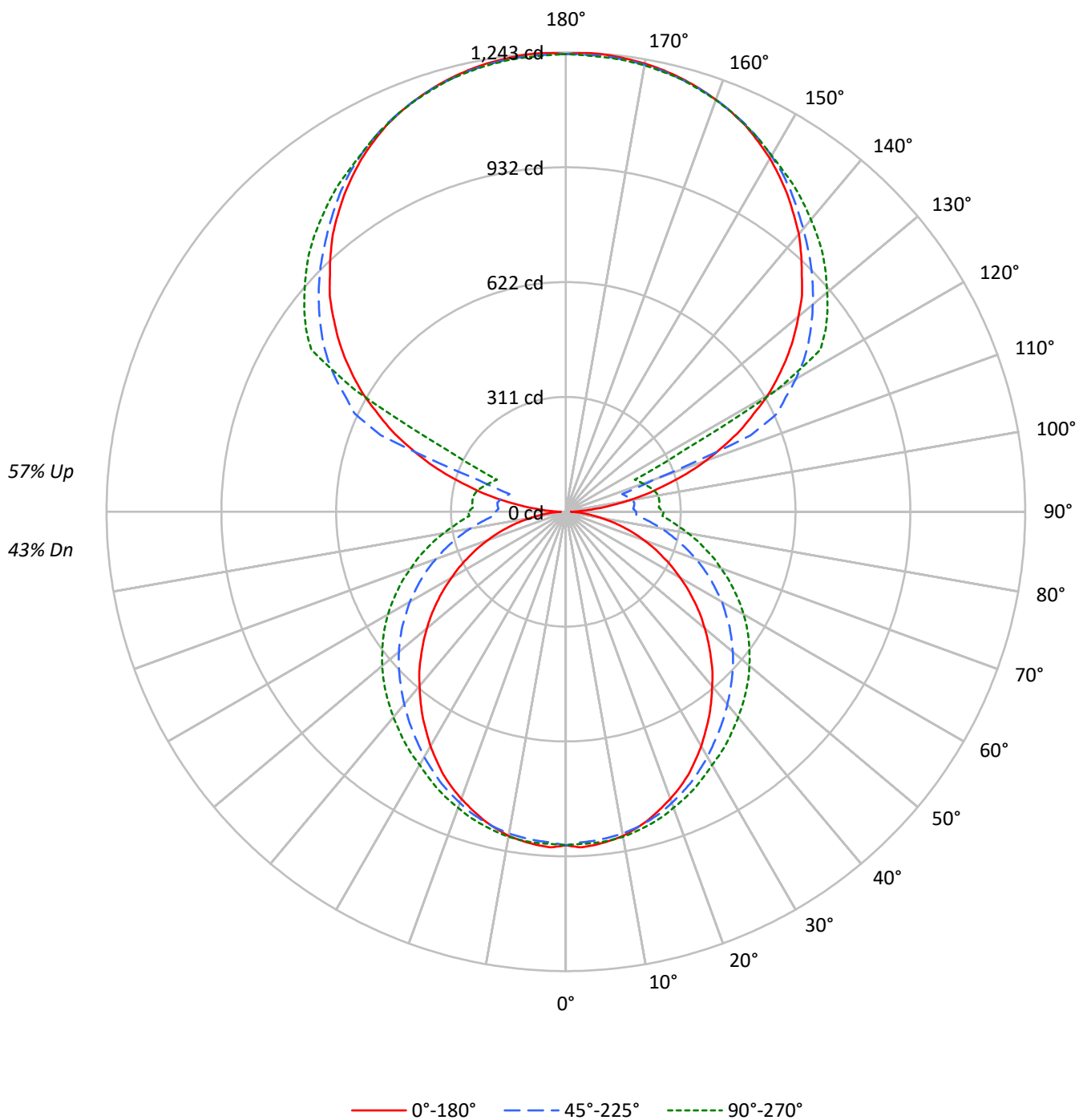
Lumens per Lamp: N/A
Luminaire Lumens: 7077.0 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	96	96	96	96	80	80	80	64	64	64	50	50	50
1	95	90	86	82	86	82	79	75	68	65	63	54	52	51	42	41	40
2	86	78	71	66	78	71	66	61	59	54	51	47	44	41	36	34	32
3	78	68	60	54	71	62	55	50	51	46	42	41	37	34	32	29	27
4	71	60	52	45	65	55	48	42	45	40	35	36	32	29	28	25	23
5	65	53	45	39	59	49	41	36	40	35	30	32	28	25	25	22	20
6	60	47	39	33	54	44	36	31	36	30	26	29	25	22	23	20	17
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	21	18	15
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	13
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	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	6.4
40°-50°	487.0	6.9
50°-60°	473.0	6.7
60°-70°	413.1	5.8
70°-80°	317.9	4.5
80°-90°	215.1	3.0
90°-100°	187.8	2.7
100°-110°	259.5	3.7
110°-120°	474.7	6.7
120°-130°	709.3	10.0
130°-140°	728.1	10.3
140°-150°	664.1	9.4
150°-160°	531.6	7.5
160°-170°	342.6	4.8
170°-180°	117.9	1.7
0°-30°	702.6	9.9
0°-40°	1155.3	16.3
0°-60°	2115.3	29.9
0°-90°	3061.3	43.3
90°-120°	922.0	13.0
90°-150°	3023.5	42.7
90°-180°	4016.0	56.7
0°-180°	7077.0	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	100	190	247	265	12
95°	69	101	185	240	254	77
105°	279	344	167	223	241	299
115°	521	550	632	256	206	512
125°	731	743	802	844	858	653
135°	903	917	939	975	984	698
145°	1046	1045	1060	1074	1077	655
155°	1152	1144	1155	1160	1153	531
165°	1214	1208	1211	1217	1211	343
175°	1242	1235	1237	1243	1234	118
180°	1239	1239	1239	1239	1239	

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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°	14.0	99.7	190.5	247.3	264.8
92.5°	34.2	99.9	182.4	235.2	251.7
95°	68.8	100.6	185.4	239.5	254.3
97.5°	114.1	96.8	186.9	238.0	254.6
100°	167.9	93.4	181.9	237.5	253.6
102.5°	225.6	267.0	174.5	231.4	248.5
105°	279.0	343.9	167.2	222.7	240.7
107.5°	342.7	396.5	159.8	214.1	232.1
110°	402.3	447.3	252.4	204.5	222.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	459.7	496.8	541.7	197.2	214.2
115°	520.6	550.3	631.6	255.7	205.6
117.5°	572.2	600.6	670.8	581.8	360.0
120°	631.4	650.1	718.6	765.9	659.3
122.5°	681.6	697.2	763.6	804.2	816.9
125°	731.4	743.0	802.0	843.5	857.9
127.5°	778.0	789.2	838.0	879.7	892.3
130°	821.9	835.0	872.3	913.6	923.1
132.5°	866.7	877.1	906.5	944.7	954.3
135°	903.1	917.4	938.6	975.0	983.7
137.5°	942.5	953.3	968.7	1002.6	1009.0
140°	981.1	986.9	999.4	1028.4	1031.8
142.5°	1013.3	1018.3	1030.0	1052.8	1054.9
145°	1046.1	1045.2	1060.4	1074.5	1076.6
147.5°	1075.7	1073.0	1088.2	1094.0	1094.3
150°	1104.4	1098.1	1112.4	1117.8	1113.3
152.5°	1128.6	1121.4	1134.8	1140.2	1134.0
155°	1151.9	1143.8	1154.6	1159.9	1152.8
157.5°	1170.7	1163.5	1171.6	1177.9	1170.7
160°	1186.8	1181.5	1186.8	1192.2	1185.9
162.5°	1201.2	1195.8	1200.3	1206.6	1198.5
165°	1213.7	1208.4	1211.0	1217.3	1211.0
167.5°	1223.6	1218.2	1220.9	1227.2	1219.1
170°	1231.7	1226.3	1228.1	1234.3	1226.3
172.5°	1237.0	1231.7	1233.5	1239.7	1231.7
175°	1241.5	1235.2	1237.0	1243.3	1234.3
177.5°	1243.3	1237.0	1237.9	1244.2	1236.1
180°	1238.8	1238.8	1238.8	1238.8	1238.8

(END OF REPORT)