

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: P1009429

Luminaire Tested: S122DIP-B675D925UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009429
REPORT IS A COMBINATION OF REPORTS P984715 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D925UB50-4F0-XX-W2A-F
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

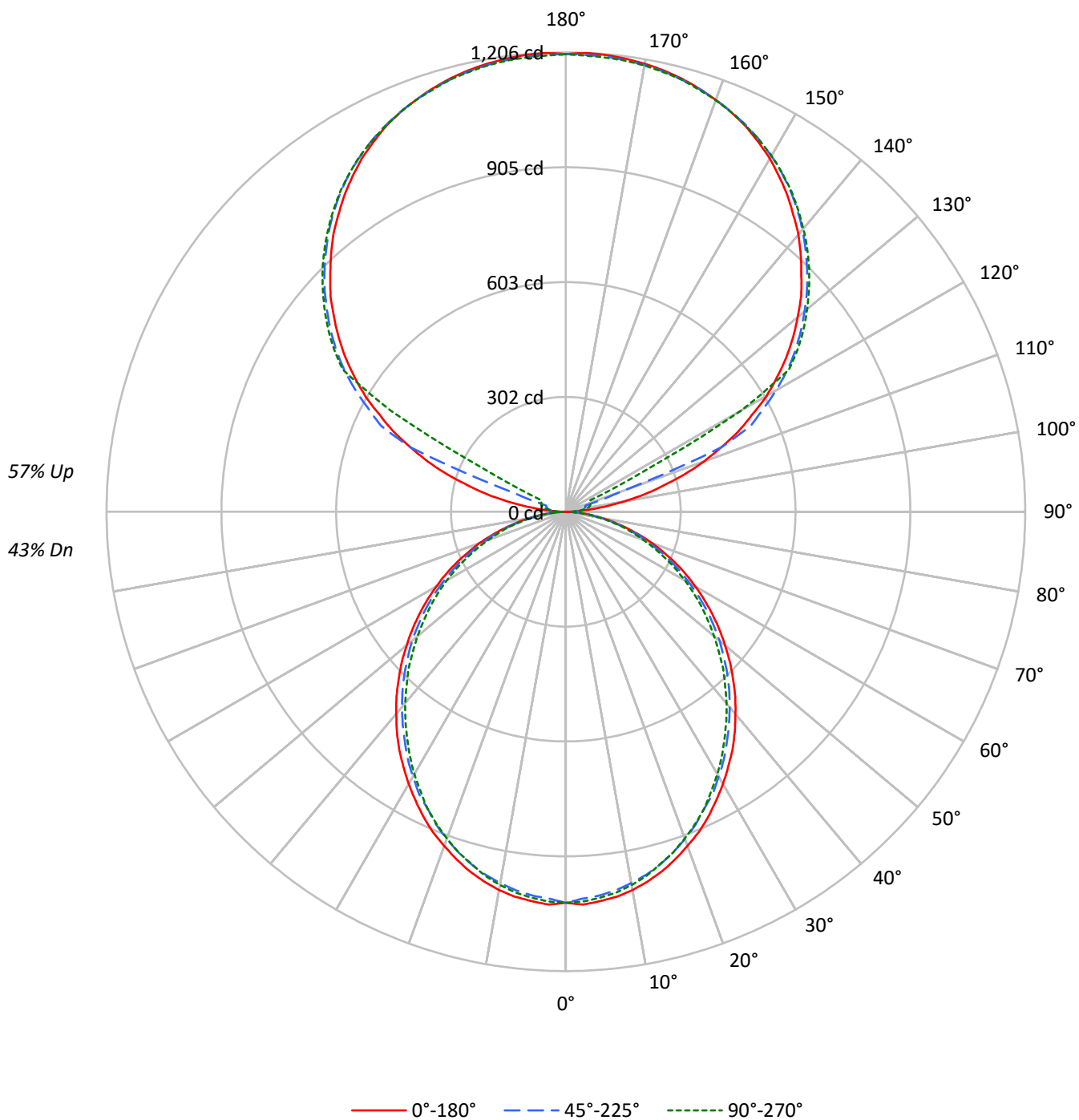
Lumens per Lamp: N/A
Luminaire Lumens: 6135.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	44	43	42
2	88	80	74	69	80	73	68	64	61	57	54	49	47	44	38	37	35
3	80	70	63	57	73	65	58	53	54	49	45	43	40	37	34	32	30
4	73	62	55	49	66	57	50	45	48	43	38	39	35	32	30	28	26
5	67	55	47	42	61	51	44	39	43	37	33	35	31	28	27	25	22
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20
7	57	45	37	31	52	41	34	29	35	29	25	28	24	21	23	20	18
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16246	16246	16246
5°	16272	15485	15375
10°	16139	14779	14486
15°	15903	14068	13550
20°	15583	13295	12665
25°	15265	12487	11780
30°	14865	11728	10853
35°	14487	10926	9941
40°	14020	10138	9078
45°	13556	9353	8234
50°	13050	8556	7357
55°	12516	7703	6527
60°	11916	6780	5664
65°	11262	5842	4757
70°	10428	4815	3841
75°	9275	3712	2965
80°	7880	2522	1909
85°	5721	1174	811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13556 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.6
10°-20°	271.8	4.4
20°-30°	399.4	6.5
30°-40°	463.9	7.6
40°-50°	463.3	7.6
50°-60°	404.0	6.6
60°-70°	298.6	4.9
70°-80°	169.0	2.8
80°-90°	46.7	0.8
90°-100°	39.6	0.6
100°-110°	147.7	2.4
110°-120°	391.6	6.4
120°-130°	649.6	10.6
130°-140°	690.0	11.2
140°-150°	641.3	10.5
150°-160°	515.6	8.4
160°-170°	332.2	5.4
170°-180°	114.3	1.9
0°-30°	767.7	12.5
0°-40°	1231.6	20.1
0°-60°	2098.9	34.2
0°-90°	2613.1	42.6
90°-120°	578.9	9.4
90°-150°	2559.8	41.7
90°-180°	3522.0	57.4
0°-180°	6135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1026	1022	1012	1019	1017	97
15°	977	971	958	962	957	275
25°	884	876	860	862	860	407
35°	763	753	737	731	726	476
45°	621	614	599	588	584	479
55°	470	464	452	440	435	420
65°	317	311	301	292	287	313
75°	166	164	159	153	155	177
85°	40	40	38	36	34	45
90°	1	10	17	22	24	6
95°	56	28	34	38	37	67
105°	264	290	53	63	66	282
115°	500	515	536	134	71	492
125°	707	718	734	741	743	630
135°	874	888	896	905	903	676
145°	1014	1014	1028	1034	1030	634
155°	1117	1109	1120	1125	1118	515
165°	1177	1172	1174	1180	1174	333
175°	1204	1198	1200	1206	1197	115
180°	1201	1201	1201	1201	1201	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.3	1026.3	1026.3	1026.3	1026.3
2.5°	1032.2	1027.3	1016.4	1026.3	1024.3
5°	1026.3	1022.3	1011.5	1019.4	1017.4
7.5°	1019.4	1013.4	1002.6	1010.5	1008.5
10°	1008.5	1001.6	989.8	997.7	994.7
12.5°	993.7	987.8	975.9	980.9	978.9
15°	976.9	971.0	958.2	962.1	957.2
17.5°	956.2	950.3	937.5	942.4	937.5
20°	933.5	927.6	913.8	916.7	912.8
22.5°	910.8	901.9	889.1	889.1	887.1
25°	884.2	876.3	859.5	861.5	859.5
27.5°	854.6	847.7	834.8	831.9	826.9
30°	825.0	817.1	802.3	799.3	795.4
32.5°	793.4	787.5	771.7	765.8	761.8
35°	762.8	752.9	737.1	731.2	726.3
37.5°	728.3	719.4	703.6	696.7	691.7
40°	692.7	684.8	669.1	660.2	656.2
42.5°	658.2	650.3	634.5	624.6	618.7
45°	620.7	613.8	599.0	588.1	584.2
47.5°	584.2	577.3	561.5	550.6	544.7
50°	545.7	540.8	527.0	513.1	508.2
52.5°	508.2	501.3	488.5	477.6	470.7
55°	469.7	463.8	452.0	440.1	435.2
57.5°	431.2	426.3	413.5	401.6	397.7
60°	392.7	388.8	375.0	364.1	361.2
62.5°	355.2	348.3	338.5	328.6	324.7
65°	316.8	310.8	301.0	292.1	287.2
67.5°	277.3	272.4	263.5	256.6	252.6
70°	240.8	236.8	228.0	221.0	217.1
72.5°	203.3	199.3	194.4	187.5	184.5
75°	165.8	163.8	158.9	153.0	154.9
77.5°	132.2	128.3	126.3	123.3	120.4
80°	98.7	97.7	95.7	92.8	90.8
82.5°	67.1	67.1	66.1	62.2	62.2
85°	40.5	39.5	38.5	35.5	34.5
87.5°	17.8	15.8	13.8	10.9	9.9
90°	0.9	10.4	17.4	21.7	23.5
92.5°	21.7	18.3	20.9	22.6	23.5
95°	56.5	27.8	33.9	38.2	37.4
97.5°	101.7	30.4	44.3	46.9	47.8
100°	153.9	34.8	49.5	56.5	58.2
102.5°	211.2	209.5	51.3	60.8	63.5
105°	264.3	290.3	53.0	62.6	66.1
107.5°	326.0	347.7	54.8	64.3	67.8
110°	385.1	403.3	152.1	65.2	68.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	440.7	456.4	441.6	66.9	69.5
115°	499.8	514.6	536.3	133.9	71.3
117.5°	551.1	568.5	583.3	459.0	231.2
120°	608.5	621.5	637.2	647.6	530.3
122.5°	657.2	671.1	688.5	693.7	694.5
125°	706.7	718.0	734.5	740.6	743.2
127.5°	751.9	764.1	777.1	785.8	786.7
130°	794.5	808.4	818.0	827.5	826.7
132.5°	838.0	849.3	858.8	866.7	865.8
135°	874.5	888.4	896.2	904.9	903.2
137.5°	912.7	923.2	931.9	940.6	937.9
140°	950.1	957.1	966.6	974.5	970.1
142.5°	981.4	987.5	998.8	1005.7	1001.4
145°	1014.4	1013.6	1028.3	1034.4	1030.1
147.5°	1043.1	1040.5	1055.3	1059.6	1056.2
150°	1070.9	1064.9	1078.8	1084.0	1079.6
152.5°	1094.4	1087.5	1100.5	1105.7	1099.6
155°	1117.0	1109.2	1119.6	1124.8	1117.9
157.5°	1135.3	1128.3	1136.1	1142.2	1135.3
160°	1150.9	1145.7	1150.9	1156.1	1150.0
162.5°	1164.8	1159.6	1164.0	1170.0	1162.2
165°	1177.0	1171.8	1174.4	1180.5	1174.4
167.5°	1186.6	1181.3	1183.9	1190.0	1182.2
170°	1194.4	1189.2	1190.9	1197.0	1189.2
172.5°	1199.6	1194.4	1196.1	1202.2	1194.4
175°	1203.9	1197.9	1199.6	1205.7	1197.0
177.5°	1205.7	1199.6	1200.5	1206.5	1198.7
180°	1201.3	1201.3	1201.3	1201.3	1201.3

(END OF REPORT)