

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: P1009399

Luminaire Tested: S122DIP-B675D925UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009399
REPORT IS A COMBINATION OF REPORTS P984685 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D925UB30-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

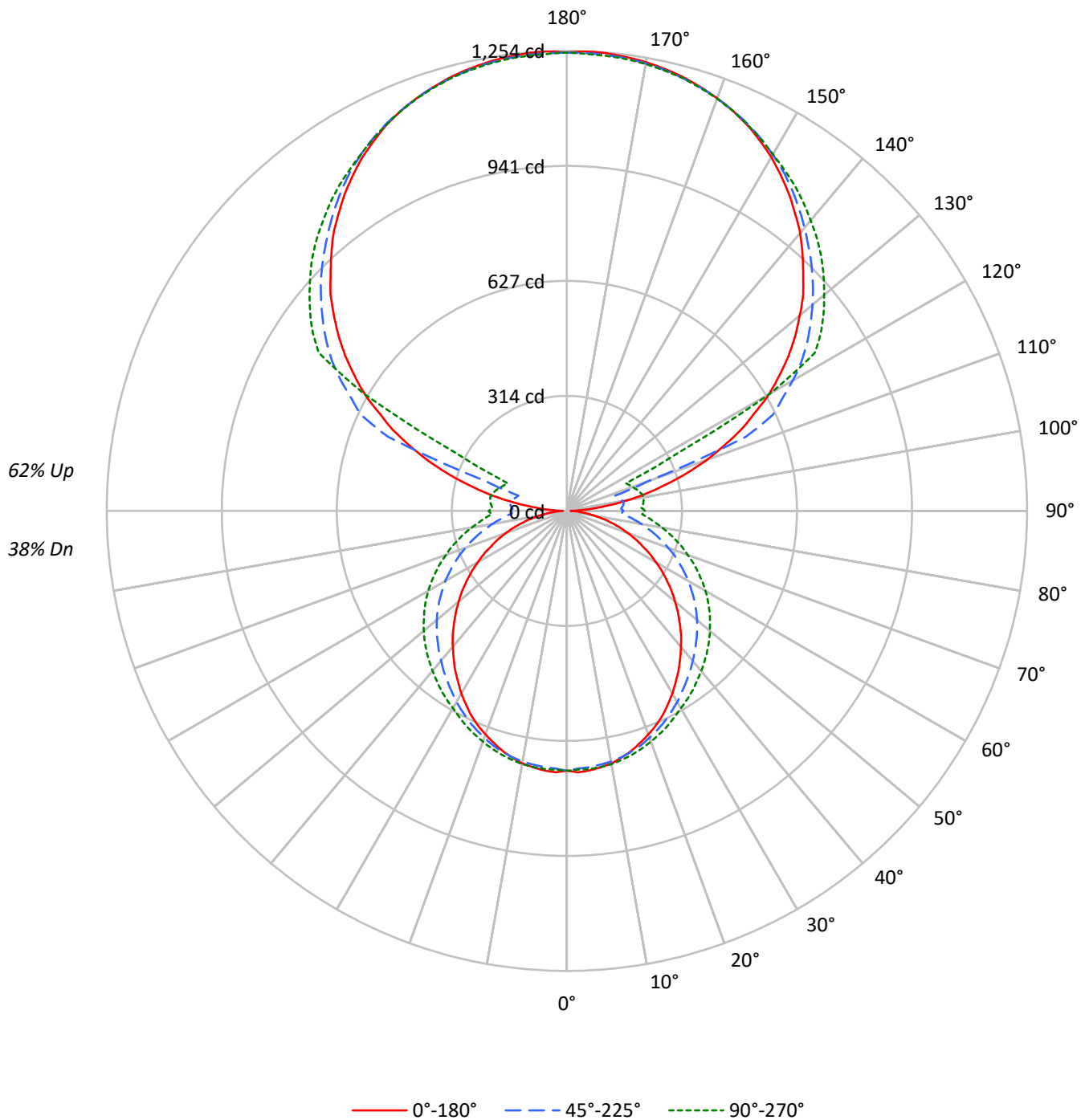
Lumens per Lamp: N/A
Luminaire Lumens: 6367.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	94	89	85	81	85	81	77	74	65	63	60	51	49	48	38	37	36
2	85	77	71	65	77	70	64	60	57	53	49	44	41	39	33	31	29
3	77	67	60	54	70	61	55	49	49	45	41	39	35	32	29	26	24
4	70	59	51	45	63	54	47	41	44	38	34	34	30	27	25	23	21
5	64	53	44	38	58	48	41	35	39	33	29	30	27	23	23	20	18
6	59	47	39	33	53	43	36	30	35	29	25	27	23	20	20	18	15
7	55	42	34	29	49	39	31	26	31	26	22	25	21	18	19	16	14
8	51	38	30	25	46	35	28	23	29	23	19	23	19	16	17	14	12
9	47	35	27	22	42	32	25	21	26	21	17	21	17	14	16	13	11
10	44	32	25	20	40	29	23	18	24	19	15	19	15	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.1
10°-20°	192.5	3.0
20°-30°	291.7	4.6
30°-40°	355.2	5.6
40°-50°	382.2	6.0
50°-60°	371.2	5.8
60°-70°	324.2	5.1
70°-80°	249.5	3.9
80°-90°	169.3	2.7
90°-100°	156.5	2.5
100°-110°	237.8	3.7
110°-120°	462.9	7.3
120°-130°	706.5	11.1
130°-140°	730.6	11.5
140°-150°	669.1	10.5
150°-160°	536.2	8.4
160°-170°	345.5	5.4
170°-180°	118.9	1.9
0°-30°	551.4	8.7
0°-40°	906.6	14.2
0°-60°	1660.0	26.1
0°-90°	2403.0	37.7
90°-120°	857.2	13.5
90°-150°	2963.4	46.5
90°-180°	3964.0	62.3
0°-180°	6367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	11	81	154	199	213	11
95°	67	85	153	197	208	76
105°	280	337	143	189	204	299
115°	524	551	619	232	178	515
125°	737	749	799	833	845	658
135°	910	925	943	974	980	704
145°	1055	1054	1070	1082	1083	660
155°	1162	1154	1164	1170	1163	535
165°	1224	1219	1221	1228	1221	346
175°	1252	1246	1248	1254	1245	119
180°	1249	1249	1249	1249	1249	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	11.2	80.6	153.6	199.1	213.2
92.5°	31.8	82.6	147.9	189.8	203.0
95°	67.0	85.3	153.3	196.8	208.2
97.5°	113.0	82.9	156.9	197.6	210.8
100°	167.2	81.4	154.1	199.4	212.5
102.5°	225.9	257.9	148.7	195.7	209.7
105°	279.9	336.9	143.4	189.3	204.2
107.5°	344.1	391.4	138.1	182.9	197.8
110°	404.6	444.1	233.1	175.6	190.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	462.5	495.1	527.0	170.2	184.2
115°	523.9	550.6	619.4	231.6	177.8
117.5°	576.3	602.5	661.0	562.5	335.9
120°	635.9	653.6	710.9	750.5	639.8
122.5°	686.6	702.0	758.1	791.2	801.3
125°	737.1	748.8	798.8	832.9	844.8
127.5°	784.1	795.7	836.9	871.7	881.8
130°	828.4	841.8	873.3	907.9	915.2
132.5°	873.6	884.3	909.6	941.3	948.6
135°	910.5	924.9	943.4	973.9	980.4
137.5°	950.3	961.1	975.3	1003.9	1008.3
140°	989.1	995.4	1007.4	1031.9	1033.5
142.5°	1021.7	1027.0	1038.8	1058.3	1058.9
145°	1055.0	1054.1	1069.5	1082.0	1082.6
147.5°	1084.9	1082.2	1097.5	1103.0	1102.5
150°	1113.8	1107.5	1121.9	1127.4	1122.8
152.5°	1138.2	1131.0	1144.5	1150.0	1143.6
155°	1161.7	1153.6	1164.4	1169.8	1162.6
157.5°	1180.7	1173.5	1181.6	1187.9	1180.7
160°	1197.0	1191.5	1197.0	1202.4	1196.1
162.5°	1211.4	1206.0	1210.5	1216.9	1208.7
165°	1224.1	1218.7	1221.4	1227.7	1221.4
167.5°	1234.0	1228.6	1231.3	1237.6	1229.5
170°	1242.2	1236.7	1238.6	1244.9	1236.7
172.5°	1247.6	1242.2	1244.0	1250.3	1242.2
175°	1252.1	1245.8	1247.6	1253.9	1244.9
177.5°	1253.9	1247.6	1248.5	1254.8	1246.7
180°	1249.4	1249.4	1249.4	1249.4	1249.4

(END OF REPORT)