

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: P1011022

Luminaire Tested: S123DIP-B1000D1025UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011022
REPORT IS A COMBINATION OF REPORTS P989022 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1025UB27-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

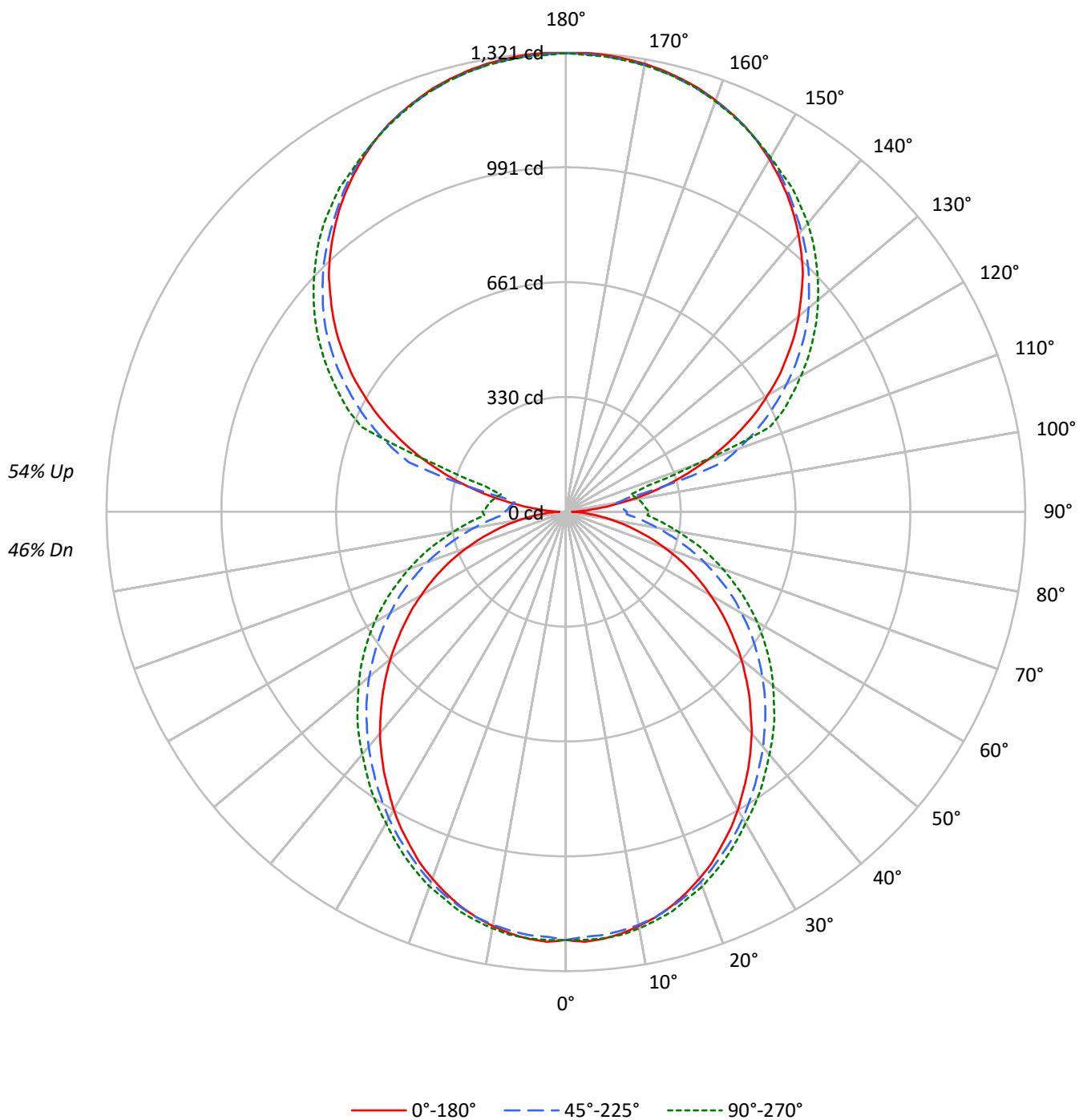
Lumens per Lamp: N/A
Luminaire Lumens: 8161.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	98	98	98	98	81	81	81	67	67	67	53	53	53
1	96	91	87	83	88	84	80	77	70	67	65	57	55	53	45	44	43
2	87	79	73	67	79	73	67	62	61	56	53	50	46	44	39	37	35
3	79	69	62	55	72	64	57	52	53	48	44	43	40	37	34	32	30
4	72	61	53	47	66	56	49	43	47	42	37	39	34	31	31	28	25
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19
7	56	44	36	30	51	40	33	28	34	28	24	28	24	21	23	19	17
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	17	15
9	49	36	29	23	44	33	27	22	28	23	19	24	19	16	19	16	14
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	15	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13254	13254	13254
5°	13289	12864	12854
10°	13165	12516	12420
15°	12991	12131	11960
20°	12743	11702	11467
25°	12439	11219	10956
30°	12127	10782	10442
35°	11778	10323	10023
40°	11445	9903	9581
45°	11075	9499	9217
50°	10708	9096	8821
55°	10304	8682	8458
60°	9909	8260	8084
65°	9500	7811	7650
70°	8888	7306	7200
75°	8114	6732	6735
80°	7210	6147	6207
85°	6311	5678	5827

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11075 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	1.4
10°-20°	333.0	4.1
20°-30°	497.9	6.1
30°-40°	594.5	7.3
40°-50°	622.0	7.6
50°-60°	583.7	7.2
60°-70°	487.5	6.0
70°-80°	348.6	4.3
80°-90°	210.1	2.6
90°-100°	176.9	2.2
100°-110°	320.7	3.9
110°-120°	615.0	7.5
120°-130°	736.0	9.0
130°-140°	763.6	9.4
140°-150°	702.1	8.6
150°-160°	563.6	6.9
160°-170°	363.7	4.5
170°-180°	125.3	1.5
0°-30°	947.7	11.6
0°-40°	1542.2	18.9
0°-60°	2747.9	33.7
0°-90°	3794.2	46.5
90°-120°	1112.5	13.6
90°-150°	3314.2	40.6
90°-180°	4367.0	53.5
0°-180°	8161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1233	1230	1222	1233	1231	117
15°	1174	1178	1176	1190	1188	331
25°	1060	1073	1077	1094	1094	488
35°	912	934	951	971	976	570
45°	746	778	812	837	848	575
55°	569	613	661	697	708	509
65°	393	445	504	544	558	388
75°	213	276	343	388	404	228
85°	66	133	204	250	263	68
90°	18	94	175	225	240	16
95°	75	87	163	212	225	83
105°	303	346	315	179	193	320
115°	554	576	634	676	690	548
125°	776	784	827	857	868	694
135°	964	968	987	1014	1018	742
145°	1110	1116	1118	1131	1136	695
155°	1222	1220	1221	1226	1220	563
165°	1288	1286	1284	1292	1286	364
175°	1319	1314	1315	1322	1314	126
180°	1319	1319	1319	1319	1319	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.3	1231.3	1231.3	1231.3	1231.3
2.5°	1238.0	1233.9	1223.2	1233.9	1232.6
5°	1232.6	1229.9	1221.9	1232.6	1231.3
7.5°	1223.2	1223.2	1215.2	1228.6	1227.2
10°	1209.8	1212.5	1205.8	1219.2	1216.5
12.5°	1193.7	1197.7	1193.7	1205.8	1203.1
15°	1173.6	1177.6	1176.3	1189.7	1188.3
17.5°	1149.4	1157.5	1156.2	1168.2	1165.5
20°	1122.6	1130.7	1133.3	1145.4	1146.8
22.5°	1094.5	1102.5	1106.5	1122.6	1121.3
25°	1059.6	1073.0	1077.0	1094.5	1094.5
27.5°	1026.1	1040.8	1048.9	1063.6	1064.9
30°	989.8	1007.3	1018.0	1034.1	1034.1
32.5°	949.6	969.7	984.5	1001.9	1005.9
35°	912.0	933.5	950.9	971.1	976.4
37.5°	871.8	895.9	916.1	938.9	942.9
40°	831.6	855.7	882.5	905.3	910.7
42.5°	787.3	818.2	846.3	871.8	879.9
45°	745.7	777.9	811.5	836.9	847.7
47.5°	701.5	737.7	775.2	803.4	811.5
50°	658.5	696.1	737.7	768.5	777.9
52.5°	612.9	653.2	700.1	732.3	744.4
55°	568.7	612.9	661.2	697.4	708.2
57.5°	525.8	571.4	623.7	659.9	672.0
60°	480.2	528.4	583.4	621.0	635.7
62.5°	437.2	486.9	545.9	583.4	596.9
65°	393.0	445.3	504.3	544.5	558.0
67.5°	348.7	403.7	462.7	507.0	517.7
70°	301.8	359.5	423.8	466.8	480.2
72.5°	258.9	316.5	383.6	427.9	441.3
75°	213.3	276.3	343.4	387.6	403.7
77.5°	174.4	237.4	304.5	351.4	363.5
80°	132.8	198.5	268.2	313.9	327.3
82.5°	96.6	163.6	234.7	280.3	293.7
85°	65.7	132.8	203.9	249.5	262.9
87.5°	40.2	107.3	175.7	221.3	234.7
90°	18.4	94.0	175.1	224.6	240.0
92.5°	38.6	90.5	166.3	217.4	230.5
95°	74.6	86.7	163.2	211.6	225.0
97.5°	122.2	143.0	156.1	204.2	218.6
100°	177.7	240.2	149.0	195.8	210.2
102.5°	240.9	291.3	181.1	186.4	201.7
105°	302.7	345.6	315.2	179.3	193.3
107.5°	367.0	404.0	473.6	359.0	242.7
110°	431.3	463.3	527.7	530.2	400.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	494.0	519.6	581.4	623.7	633.9
115°	554.4	576.4	633.5	675.5	690.1
117.5°	615.1	632.7	683.2	723.2	735.0
120°	669.7	685.2	732.3	771.1	780.5
122.5°	726.5	736.0	781.5	815.9	826.3
125°	776.1	783.9	826.7	856.9	868.2
127.5°	827.0	833.5	871.9	901.7	909.1
130°	874.0	880.6	911.3	940.7	946.7
132.5°	917.8	925.6	948.7	976.7	983.2
135°	963.9	968.3	987.0	1014.1	1017.8
137.5°	1003.0	1009.5	1020.8	1047.2	1052.0
140°	1040.8	1046.7	1053.7	1077.8	1082.5
142.5°	1077.1	1081.7	1084.6	1104.9	1108.7
145°	1110.4	1116.0	1117.9	1130.6	1136.0
147.5°	1141.4	1146.3	1148.3	1154.2	1154.7
150°	1170.8	1173.8	1175.7	1177.7	1177.4
152.5°	1197.3	1198.3	1199.2	1203.2	1198.3
155°	1221.8	1219.8	1220.8	1225.7	1219.8
157.5°	1241.4	1241.4	1240.4	1246.3	1238.4
160°	1259.0	1258.0	1257.0	1262.9	1256.1
162.5°	1275.7	1272.7	1271.7	1278.6	1272.7
165°	1288.4	1285.5	1284.5	1292.3	1285.5
167.5°	1299.2	1295.3	1295.3	1303.1	1295.3
170°	1308.0	1304.1	1304.1	1311.9	1304.1
172.5°	1313.9	1309.0	1309.9	1317.8	1309.0
175°	1318.8	1313.9	1314.8	1321.7	1313.9
177.5°	1320.7	1315.8	1316.8	1324.6	1314.8
180°	1318.8	1318.8	1318.8	1318.8	1318.8

(END OF REPORT)