

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: P1011068

Luminaire Tested: S123DIP-B1000D1195UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011068
REPORT IS A COMBINATION OF REPORTS P989083 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1195UB27-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

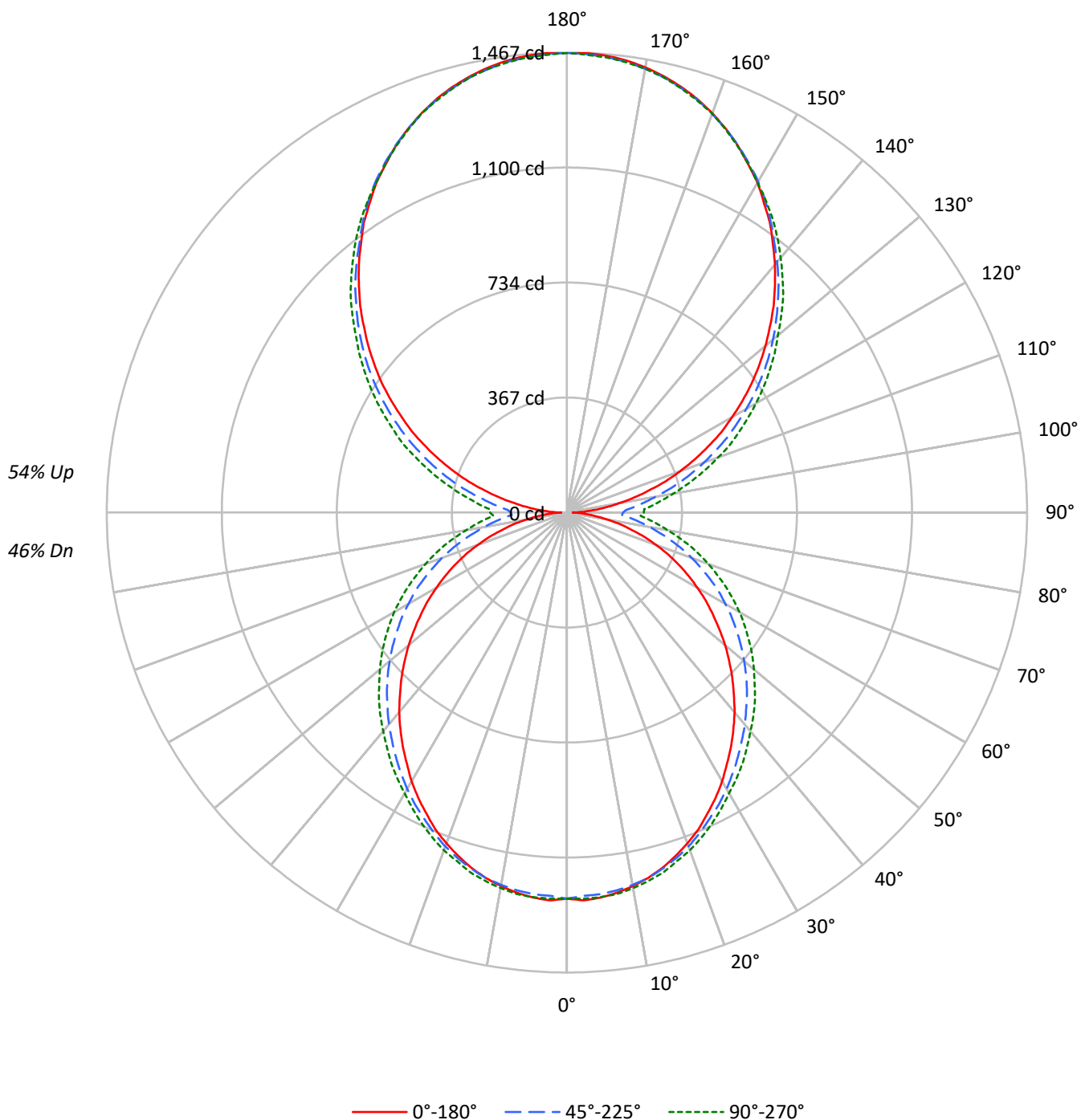
Lumens per Lamp: N/A
Luminaire Lumens: 8202.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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					0
RW	70	50	30	10	70	50	30	10	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	66	66	66	53	53	53	46		
1	96	91	87	83	88	84	80	77	70	67	65	57	55	53	45	44	43	37		
2	87	79	73	67	79	73	67	62	61	56	53	49	46	44	39	37	35	30		
3	79	69	62	55	72	64	57	52	53	48	44	43	40	37	34	32	29	25		
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	28	25	21		
5	66	54	46	40	60	50	43	37	42	36	32	34	30	27	27	24	22	18		
6	61	49	40	34	56	45	37	32	38	32	28	31	27	23	25	22	19	16		
7	56	44	36	30	51	40	33	28	34	28	24	28	24	20	23	19	17	14		
8	52	40	32	26	48	37	30	25	31	25	21	26	21	18	21	17	15	13		
9	48	36	28	23	44	33	27	22	28	23	19	24	19	16	19	16	13	11		
10	45	33	26	21	41	31	24	20	26	21	17	22	18	15	18	14	12	10		

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	7.2
40°-50°	622.0	7.6
50°-60°	583.7	7.1
60°-70°	487.5	5.9
70°-80°	348.6	4.3
80°-90°	210.5	2.6
90°-100°	224.7	2.7
100°-110°	381.4	4.6
110°-120°	550.1	6.7
120°-130°	676.0	8.2
130°-140°	735.2	9.0
140°-150°	710.1	8.7
150°-160°	595.0	7.3
160°-170°	396.1	4.8
170°-180°	138.7	1.7
0°-30°	947.7	11.6
0°-40°	1542.2	18.8
0°-60°	2747.9	33.5
0°-90°	3794.6	46.3
90°-120°	1156.2	14.1
90°-150°	3277.6	40.0
90°-180°	4407.0	53.7
0°-180°	8202.0	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°	19	96	179	229	245	18
95°	83	143	218	264	278	86
105°	270	304	372	410	424	288
115°	496	516	562	595	604	491
125°	720	724	760	784	788	643
135°	932	937	951	970	975	718
145°	1128	1129	1133	1142	1143	705
155°	1291	1291	1292	1296	1288	594
165°	1406	1402	1402	1409	1401	396
175°	1462	1458	1458	1464	1456	139
180°	1466	1466	1466	1466	1466	

TEST NUMBER: P1011068

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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°	18.6	95.9	179.2	229.4	245.1
92.5°	50.6	115.2	189.2	236.9	246.7
95°	82.7	143.1	218.0	264.2	277.6
97.5°	125.1	179.1	249.0	295.1	307.3
100°	168.7	218.5	285.9	328.3	344.0
102.5°	219.1	260.1	328.5	369.6	381.8
105°	269.7	304.2	372.3	409.8	424.2
107.5°	328.3	357.7	417.2	456.9	467.8
110°	382.2	408.7	464.6	504.1	512.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	439.7	459.7	510.7	549.9	562.0
115°	496.0	515.6	561.6	594.9	604.5
117.5°	554.7	566.6	609.9	642.1	649.4
120°	607.5	621.1	659.6	689.3	696.4
122.5°	663.9	671.1	710.4	736.5	742.4
125°	720.1	723.6	760.2	783.8	788.5
127.5°	773.1	778.7	809.9	829.8	834.6
130°	826.0	833.9	857.3	878.2	878.1
132.5°	877.7	886.9	904.7	923.0	926.7
135°	931.8	937.3	951.0	970.4	974.8
137.5°	981.3	985.7	998.5	1014.3	1017.5
140°	1031.7	1037.5	1042.7	1061.7	1060.3
142.5°	1078.9	1083.4	1085.7	1101.9	1102.9
145°	1128.4	1129.4	1132.9	1142.4	1143.2
147.5°	1169.7	1174.3	1177.8	1181.8	1180.3
150°	1214.6	1216.9	1219.2	1219.2	1215.0
152.5°	1251.5	1254.9	1256.1	1258.4	1252.6
155°	1290.6	1290.6	1291.8	1296.4	1288.3
157.5°	1324.0	1322.8	1324.0	1328.6	1321.7
160°	1355.1	1352.8	1352.8	1358.5	1353.9
162.5°	1382.7	1379.2	1380.4	1386.2	1378.1
165°	1405.7	1402.3	1402.3	1409.2	1401.1
167.5°	1425.3	1420.7	1421.8	1428.8	1421.8
170°	1441.4	1436.8	1436.8	1444.9	1436.8
172.5°	1454.1	1449.5	1449.5	1456.4	1448.3
175°	1462.1	1457.5	1457.5	1464.4	1456.4
177.5°	1466.7	1462.1	1462.1	1469.1	1461.0
180°	1465.6	1465.6	1465.6	1465.6	1465.6

(END OF REPORT)