

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: P1011105

Luminaire Tested: S123DIP-B1000D1195UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011105
REPORT IS A COMBINATION OF REPORTS P989135 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1195UB50-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

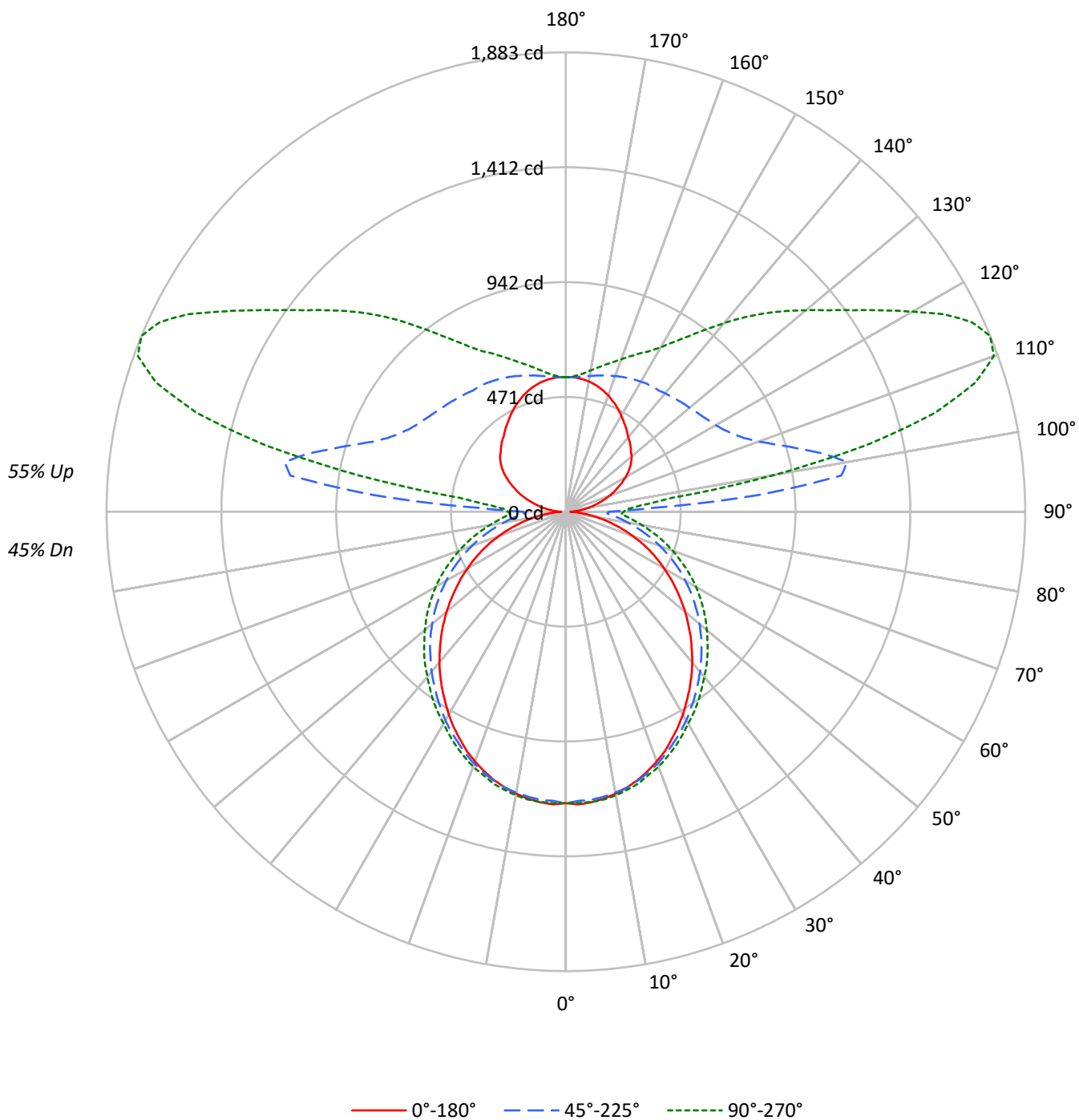
Lumens per Lamp: N/A
Luminaire Lumens: 8174.6 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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				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	97	97	97	97	81	81	81	65	65	65	52	52	52
1	96	91	87	83	87	83	80	76	69	67	64	56	54	53	44	43	42
2	87	79	72	67	79	72	67	62	60	56	52	49	46	43	38	36	34
3	79	69	61	55	72	63	57	51	53	48	44	43	39	36	34	31	29
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25
5	66	54	46	40	60	50	42	37	42	36	32	34	30	26	27	24	21
6	61	48	40	34	55	45	37	32	37	32	27	31	26	23	24	21	19
7	56	44	35	30	51	40	33	28	34	28	24	28	23	20	22	19	16
8	52	39	32	26	47	36	29	25	31	25	21	25	21	18	20	17	15
9	48	36	28	23	44	33	26	22	28	23	19	23	19	16	19	15	13
10	45	33	26	21	41	30	24	20	26	21	17	21	17	14	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12853	12853	12853
5°	12888	12476	12466
10°	12768	12138	12046
15°	12598	11764	11599
20°	12358	11349	11120
25°	12064	10880	10624
30°	11761	10457	10127
35°	11423	10011	9720
40°	11100	9605	9292
45°	10740	9211	8939
50°	10386	8821	8555
55°	9993	8421	8203
60°	9609	8011	7840
65°	9213	7575	7418
70°	8620	7085	6983
75°	7867	6528	6532
80°	6993	5962	6019
85°	6119	5505	5650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	1.4
10°-20°	322.9	4.0
20°-30°	482.9	5.9
30°-40°	576.5	7.1
40°-50°	603.2	7.4
50°-60°	566.1	6.9
60°-70°	472.8	5.8
70°-80°	338.1	4.1
80°-90°	204.3	2.5
90°-100°	439.8	5.4
100°-110°	969.0	11.9
110°-120°	916.3	11.2
120°-130°	715.6	8.8
130°-140°	552.8	6.8
140°-150°	403.9	4.9
150°-160°	279.5	3.4
160°-170°	164.2	2.0
170°-180°	53.4	0.7
0°-30°	919.1	11.2
0°-40°	1495.6	18.3
0°-60°	2664.9	32.6
0°-90°	3680.1	45.0
90°-120°	2325.1	28.4
90°-150°	3997.5	48.9
90°-180°	4495.0	55.0
0°-180°	8174.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1195	1193	1185	1195	1194	113
15°	1138	1142	1141	1154	1152	321
25°	1028	1041	1044	1061	1061	474
35°	884	905	922	942	947	553
45°	723	754	787	812	822	558
55°	552	594	641	676	687	494
65°	381	432	489	528	541	377
75°	207	268	333	376	392	221
85°	64	129	198	242	255	66
90°	19	94	175	222	237	15
95°	52	188	791	362	312	51
105°	140	233	995	1704	1566	148
115°	235	307	756	1606	1838	233
125°	322	380	682	1230	1440	287
135°	376	446	648	995	1150	290
145°	427	487	624	795	879	267
155°	484	521	604	687	716	222
165°	528	543	578	614	624	149
175°	550	551	555	563	562	52
180°	552	552	552	552	552	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1194.1	1194.1	1194.1	1194.1	1194.1
2.5°	1200.6	1196.7	1186.3	1196.7	1195.4
5°	1195.4	1192.8	1185.0	1195.4	1194.1
7.5°	1186.3	1186.3	1178.5	1191.5	1190.2
10°	1173.3	1175.9	1169.4	1182.4	1179.8
12.5°	1157.6	1161.5	1157.6	1169.4	1166.8
15°	1138.1	1142.0	1140.7	1153.7	1152.4
17.5°	1114.7	1122.5	1121.2	1132.9	1130.3
20°	1088.7	1096.5	1099.1	1110.8	1112.1
22.5°	1061.4	1069.2	1073.1	1088.7	1087.4
25°	1027.6	1040.6	1044.5	1061.4	1061.4
27.5°	995.1	1009.4	1017.2	1031.5	1032.8
30°	959.9	976.8	987.3	1002.9	1002.9
32.5°	920.9	940.4	954.7	971.6	975.5
35°	884.5	905.3	922.2	941.7	946.9
37.5°	845.5	868.9	888.4	910.5	914.4
40°	806.5	829.9	855.9	878.0	883.2
42.5°	763.5	793.4	820.8	845.5	853.3
45°	723.2	754.4	786.9	811.7	822.1
47.5°	680.3	715.4	751.8	779.1	786.9
50°	638.7	675.1	715.4	745.3	754.4
52.5°	594.4	633.5	679.0	710.2	721.9
55°	551.5	594.4	641.3	676.4	686.8
57.5°	509.9	554.1	604.8	640.0	651.7
60°	465.7	512.5	565.8	602.2	616.5
62.5°	424.0	472.2	529.4	565.8	578.8
65°	381.1	431.8	489.1	528.1	541.1
67.5°	338.2	391.5	448.8	491.7	502.1
70°	292.7	348.6	411.0	452.7	465.7
72.5°	251.0	307.0	372.0	414.9	427.9
75°	206.8	267.9	333.0	375.9	391.5
77.5°	169.1	230.2	295.3	340.8	352.5
80°	128.8	192.5	260.1	304.4	317.4
82.5°	93.7	158.7	227.6	271.9	284.9
85°	63.7	128.8	197.7	241.9	254.9
87.5°	39.0	104.1	170.4	214.6	227.6
90°	19.1	94.0	174.9	222.4	236.6
92.5°	32.3	138.4	344.3	250.4	250.4
95°	52.3	188.4	790.9	362.3	311.6
97.5°	73.3	201.0	1139.3	645.6	438.7
100°	94.3	209.0	1170.6	1167.0	864.0
102.5°	116.5	219.3	1090.2	1502.3	1263.5
105°	139.9	233.1	995.3	1703.8	1565.9
107.5°	163.2	250.2	910.5	1786.8	1760.0
110°	188.7	267.9	840.2	1781.8	1867.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.2	286.7	790.0	1709.6	1882.7
115°	235.4	307.4	755.6	1605.9	1837.9
117.5°	258.8	325.6	728.8	1495.3	1751.9
120°	282.1	343.8	710.0	1390.3	1640.1
122.5°	303.3	362.3	695.7	1306.0	1536.2
125°	322.1	379.6	682.5	1230.1	1440.2
127.5°	337.7	398.4	672.6	1166.5	1356.4
130°	352.3	416.2	662.8	1107.3	1284.8
132.5°	362.1	432.5	655.2	1051.5	1216.9
135°	375.5	446.2	647.6	995.3	1149.8
137.5°	387.8	458.6	640.1	940.6	1080.5
140°	398.8	469.6	633.8	888.3	1009.3
142.5°	412.2	478.4	626.4	838.7	941.2
145°	426.7	487.4	624.1	794.8	878.7
147.5°	439.9	496.8	620.8	759.2	825.3
150°	454.4	504.6	616.3	729.6	778.6
152.5°	468.9	513.0	610.7	707.3	742.5
155°	483.5	521.4	604.0	686.7	715.7
157.5°	494.6	528.6	598.5	666.6	690.0
160°	508.0	534.8	591.8	648.2	665.5
162.5°	518.1	539.3	585.1	630.8	643.1
165°	528.1	543.2	578.4	613.5	624.1
167.5°	535.9	546.6	571.7	598.4	605.2
170°	542.6	548.2	565.0	585.0	588.4
172.5°	547.1	549.9	559.4	573.3	572.8
175°	550.5	551.0	554.9	562.7	561.6
177.5°	552.7	551.6	551.6	556.0	553.8
180°	551.6	551.6	551.6	551.6	551.6

(END OF REPORT)