

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: P1011096

Luminaire Tested: S123DIP-B1000D1195UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011096
REPORT IS A COMBINATION OF REPORTS P989126 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1195UB40-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

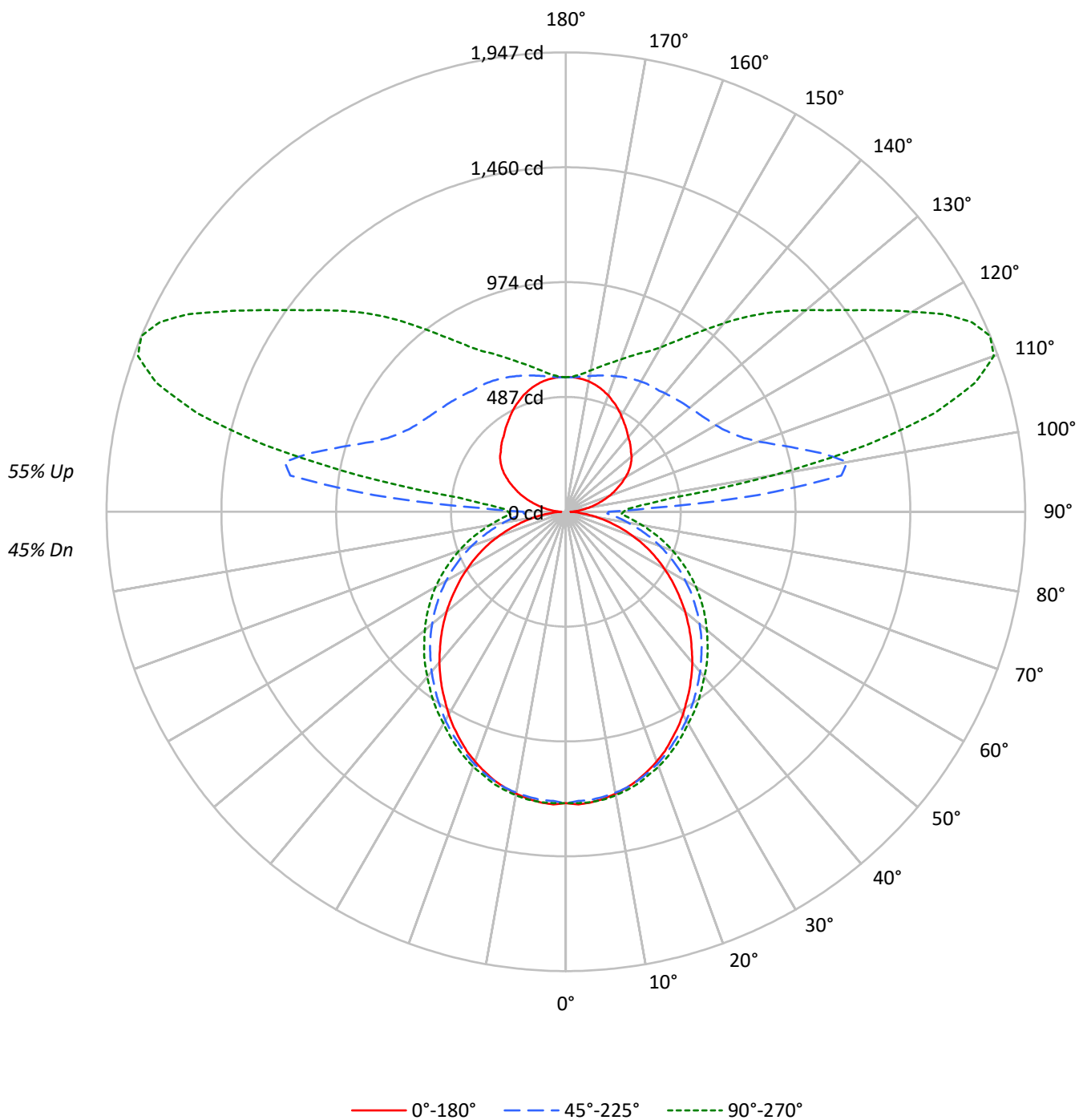
Lumens per Lamp: N/A
Luminaire Lumens: 8453.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1011096

CATALOG NUMBER: S123DIP-B1000D1195UB40-4F0-XX-W2A-D4

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°	13291	13291	13291
5°	13328	12901	12891
10°	13203	12552	12456
15°	13029	12166	11995
20°	12781	11736	11500
25°	12476	11251	10987
30°	12163	10814	10472
35°	11813	10353	10053
40°	11478	9932	9608
45°	11107	9525	9243
50°	10741	9122	8847
55°	10333	8708	8482
60°	9937	8284	8108
65°	9527	7834	7672
70°	8914	7328	7221
75°	8137	6751	6755
80°	7231	6166	6224
85°	6330	5695	5843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11107 cd/sqm

TEST NUMBER: P1011096

CATALOG NUMBER: S123DIP-B1000D1195UB40-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	1.4
10°-20°	333.9	4.0
20°-30°	499.4	5.9
30°-40°	596.2	7.1
40°-50°	623.8	7.4
50°-60°	585.4	6.9
60°-70°	489.0	5.8
70°-80°	349.6	4.1
80°-90°	211.2	2.5
90°-100°	454.8	5.4
100°-110°	1001.9	11.9
110°-120°	947.4	11.2
120°-130°	739.9	8.8
130°-140°	571.6	6.8
140°-150°	417.6	4.9
150°-160°	289.0	3.4
160°-170°	169.8	2.0
170°-180°	55.2	0.7
0°-30°	950.4	11.2
0°-40°	1546.6	18.3
0°-60°	2755.9	32.6
0°-90°	3805.7	45.0
90°-120°	2404.2	28.4
90°-150°	4133.4	48.9
90°-180°	4647.0	55.0
0°-180°	8453.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1235	1235	1235	1235	1235	
5°	1236	1234	1225	1236	1235	117
15°	1177	1181	1180	1193	1192	332
25°	1063	1076	1080	1098	1098	490
35°	915	936	954	974	979	572
45°	748	780	814	839	850	577
55°	570	615	663	700	710	511
65°	394	447	506	546	560	390
75°	214	277	344	389	405	228
85°	66	133	204	250	264	68
90°	20	97	181	230	245	16
95°	54	195	818	375	322	53
105°	145	241	1029	1762	1619	153
115°	243	318	781	1660	1900	241
125°	333	392	706	1272	1489	296
135°	388	461	670	1029	1189	300
145°	441	504	645	822	908	276
155°	500	539	625	710	740	230
165°	546	562	598	634	645	154
175°	569	570	574	582	581	54
180°	570	570	570	570	570	

TEST NUMBER: P1011096

CATALOG NUMBER: S123DIP-B1000D1195UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1234.8	1234.8	1234.8	1234.8	1234.8
2.5°	1241.6	1237.5	1226.8	1237.5	1236.2
5°	1236.2	1233.5	1225.4	1236.2	1234.8
7.5°	1226.8	1226.8	1218.7	1232.1	1230.8
10°	1213.3	1216.0	1209.3	1222.7	1220.0
12.5°	1197.2	1201.2	1197.2	1209.3	1206.6
15°	1177.0	1181.0	1179.7	1193.1	1191.8
17.5°	1152.8	1160.8	1159.5	1171.6	1168.9
20°	1125.9	1133.9	1136.6	1148.7	1150.1
22.5°	1097.6	1105.7	1109.7	1125.9	1124.5
25°	1062.7	1076.1	1080.1	1097.6	1097.6
27.5°	1029.0	1043.8	1051.9	1066.7	1068.0
30°	992.7	1010.2	1021.0	1037.1	1037.1
32.5°	952.4	972.5	987.3	1004.8	1008.8
35°	914.7	936.2	953.7	973.9	979.3
37.5°	874.3	898.5	918.7	941.6	945.6
40°	834.0	858.2	885.1	908.0	913.3
42.5°	789.6	820.5	848.8	874.3	882.4
45°	747.9	780.2	813.8	839.4	850.1
47.5°	703.5	739.8	777.5	805.7	813.8
50°	660.5	698.1	739.8	770.8	780.2
52.5°	614.7	655.1	702.2	734.4	746.5
55°	570.3	614.7	663.2	699.5	710.2
57.5°	527.3	573.0	625.5	661.8	673.9
60°	481.6	530.0	585.1	622.8	637.6
62.5°	438.5	488.3	547.5	585.1	598.6
65°	394.1	446.6	505.8	546.1	559.6
67.5°	349.7	404.9	464.1	508.5	519.2
70°	302.7	360.5	425.1	468.1	481.6
72.5°	259.6	317.5	384.7	429.1	442.5
75°	213.9	277.1	344.4	388.7	404.9
77.5°	174.9	238.1	305.3	352.4	364.5
80°	133.2	199.1	269.0	314.8	328.2
82.5°	96.8	164.1	235.4	281.1	294.6
85°	65.9	133.2	204.5	250.2	263.6
87.5°	40.4	107.6	176.2	221.9	235.4
90°	19.8	97.2	180.9	230.0	244.7
92.5°	33.4	143.3	355.9	258.9	258.9
95°	54.1	194.9	817.8	374.6	322.2
97.5°	75.8	208.0	1178.0	667.7	453.7
100°	97.5	216.2	1210.3	1206.6	893.3
102.5°	120.5	226.8	1127.2	1553.3	1306.5
105°	144.7	241.0	1029.1	1761.6	1619.2
107.5°	168.7	258.8	941.3	1847.5	1819.8
110°	195.1	277.0	868.8	1842.4	1930.4

TEST NUMBER: P1011096

CATALOG NUMBER: S123DIP-B1000D1195UB40-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.5	296.4	816.8	1767.6	1946.7
115°	243.4	317.8	781.3	1660.4	1900.2
117.5°	267.6	336.7	753.6	1546.0	1811.4
120°	291.7	355.6	734.2	1437.5	1695.7
122.5°	313.6	374.7	719.4	1350.5	1588.4
125°	333.0	392.5	705.7	1272.0	1489.1
127.5°	349.2	412.0	695.5	1206.1	1402.5
130°	364.2	430.4	685.3	1145.0	1328.5
132.5°	374.4	447.2	677.5	1087.2	1258.3
135°	388.3	461.4	669.5	1029.2	1188.9
137.5°	401.0	474.0	661.9	972.6	1117.3
140°	412.3	485.6	655.4	918.6	1043.6
142.5°	426.1	494.7	647.6	867.2	973.2
145°	441.1	503.9	645.3	821.8	908.5
147.5°	454.9	513.8	641.9	785.0	853.3
150°	469.9	521.8	637.3	754.4	805.0
152.5°	484.9	530.5	631.5	731.4	767.7
155°	499.9	539.1	624.6	710.0	740.0
157.5°	511.4	546.6	618.8	689.2	713.5
160°	525.3	553.0	611.9	670.2	688.1
162.5°	535.7	557.6	604.9	652.2	665.0
165°	546.1	561.7	598.0	634.4	645.3
167.5°	554.1	565.1	591.1	618.8	625.7
170°	561.1	566.8	584.2	605.0	608.4
172.5°	565.7	568.6	578.4	592.8	592.2
175°	569.1	569.7	573.8	581.8	580.7
177.5°	571.5	570.3	570.3	574.9	572.6
180°	570.3	570.3	570.3	570.3	570.3

(END OF REPORT)