

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: P1011288

Luminaire Tested: S123DIP-B1165D1195UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011288
REPORT IS A COMBINATION OF REPORTS P989384 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D1195UB27-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

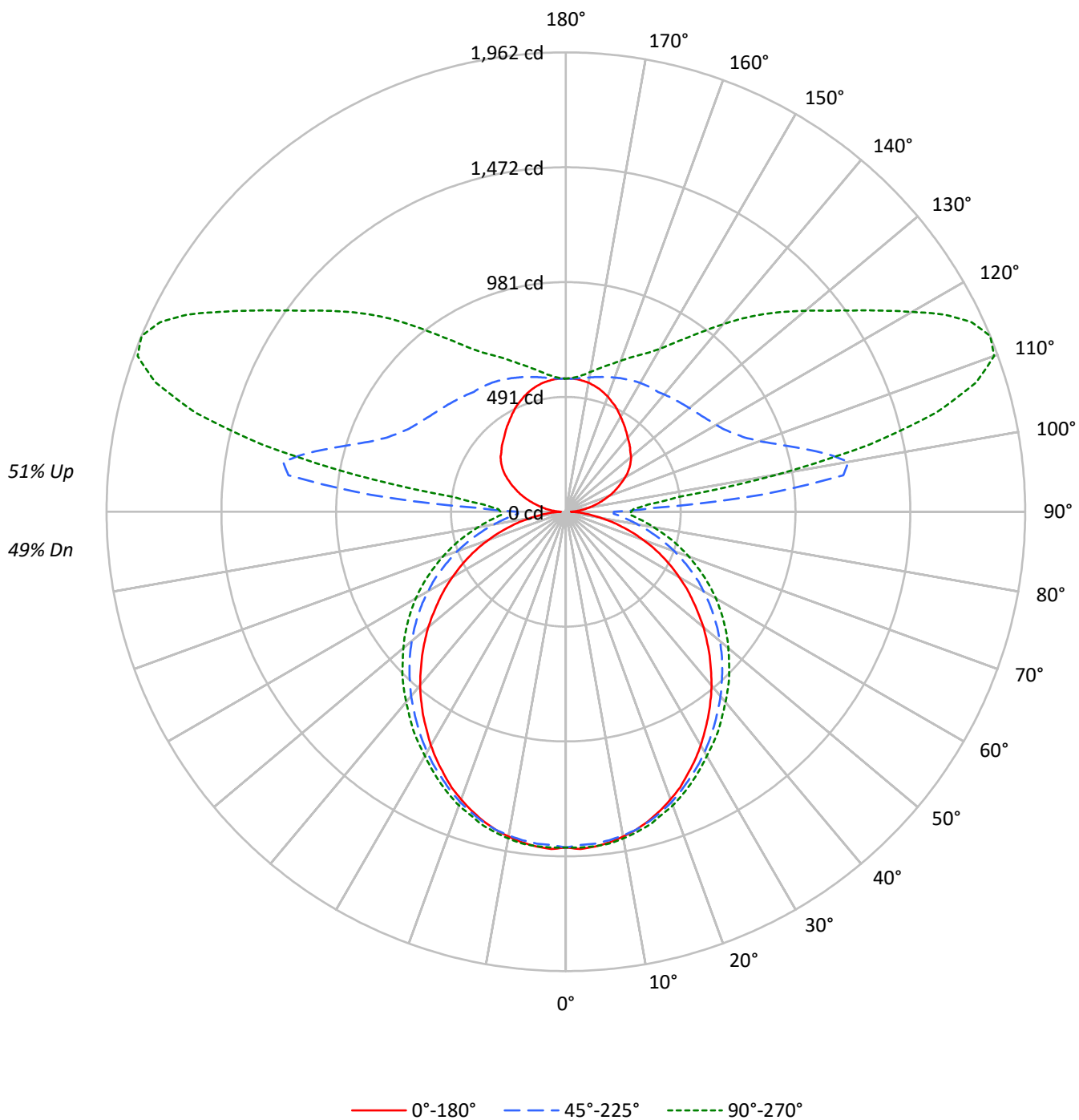
Lumens per Lamp: N/A
Luminaire Lumens: 9110.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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

TEST NUMBER: P1011288

CATALOG NUMBER: S123DIP-B1165D1195UB27-4F0-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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55
1	96	92	87	84	88	84	81	77	71	68	66	58	56	55	47	45	44
2	87	79	73	67	80	73	67	63	61	57	54	51	47	45	41	38	36
3	79	70	62	56	73	64	57	52	54	49	45	44	41	37	36	33	31
4	73	61	53	47	66	57	49	44	48	42	38	39	35	32	32	29	26
5	66	54	46	40	61	50	43	37	42	37	32	35	31	27	28	25	23
6	61	49	40	34	56	45	38	32	38	32	28	32	27	24	26	22	20
7	56	44	36	30	52	41	33	28	35	29	25	29	24	21	23	20	17
8	52	40	32	26	48	37	30	25	31	26	22	26	22	19	21	18	16
9	49	36	29	24	45	34	27	22	29	23	19	24	20	17	20	16	14
10	46	33	26	21	42	31	24	20	26	21	17	22	18	15	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15434	15434	15434
5°	15477	14982	14969
10°	15332	14576	14464
15°	15129	14128	13929
20°	14841	13628	13354
25°	14487	13066	12758
30°	14123	12556	12160
35°	13716	12022	11673
40°	13328	11534	11158
45°	12898	11061	10734
50°	12471	10593	10273
55°	12000	10112	9850
60°	11539	9621	9416
65°	11064	9096	8908
70°	10348	8509	8384
75°	9449	7839	7845
80°	8393	7161	7228
85°	7348	6611	6785

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12898 cd/sqm

TEST NUMBER: P1011288

CATALOG NUMBER: S123DIP-B1165D1195UB27-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	1.5
10°-20°	387.8	4.3
20°-30°	579.9	6.4
30°-40°	692.3	7.6
40°-50°	724.4	8.0
50°-60°	679.8	7.5
60°-70°	567.8	6.2
70°-80°	406.0	4.5
80°-90°	244.7	2.7
90°-100°	475.0	5.2
100°-110°	1014.9	11.1
110°-120°	955.3	10.5
120°-130°	743.9	8.2
130°-140°	572.7	6.3
140°-150°	417.0	4.6
150°-160°	288.2	3.2
160°-170°	169.3	1.9
170°-180°	55.1	0.6
0°-30°	1103.7	12.1
0°-40°	1796.0	19.7
0°-60°	3200.1	35.1
0°-90°	4418.7	48.5
90°-120°	2445.2	26.8
90°-150°	4178.8	45.9
90°-180°	4691.0	51.5
0°-180°	9110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1434	1434	1434	1434	1434	
5°	1436	1432	1423	1436	1434	136
15°	1367	1371	1370	1386	1384	385
25°	1234	1250	1254	1275	1275	569
35°	1062	1087	1107	1131	1137	664
45°	868	906	945	975	987	670
55°	662	714	770	812	825	593
65°	458	519	587	634	650	452
75°	248	322	400	451	470	265
85°	76	155	237	290	306	79
90°	23	111	205	262	279	18
95°	56	205	837	402	352	55
105°	146	247	1043	1780	1639	154
115°	244	321	791	1673	1914	242
125°	333	392	711	1280	1498	296
135°	388	460	670	1033	1193	299
145°	440	502	644	821	909	276
155°	498	538	623	708	738	229
165°	544	560	596	633	644	153
175°	568	568	572	580	579	54
180°	569	569	569	569	569	

TEST NUMBER: P1011288

CATALOG NUMBER: S123DIP-B1165D1195UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1433.9	1433.9	1433.9	1433.9	1433.9
2.5°	1441.7	1437.0	1424.5	1437.0	1435.5
5°	1435.5	1432.3	1423.0	1435.5	1433.9
7.5°	1424.5	1424.5	1415.1	1430.8	1429.2
10°	1408.9	1412.0	1404.2	1419.8	1416.7
12.5°	1390.2	1394.8	1390.2	1404.2	1401.1
15°	1366.7	1371.4	1369.9	1385.5	1383.9
17.5°	1338.6	1348.0	1346.4	1360.5	1357.4
20°	1307.4	1316.7	1319.9	1333.9	1335.5
22.5°	1274.6	1283.9	1288.6	1307.4	1305.8
25°	1234.0	1249.6	1254.3	1274.6	1274.6
27.5°	1194.9	1212.1	1221.5	1238.6	1240.2
30°	1152.7	1173.0	1185.5	1204.3	1204.3
32.5°	1105.9	1129.3	1146.5	1166.8	1171.5
35°	1062.1	1087.1	1107.4	1130.9	1137.1
37.5°	1015.3	1043.4	1066.8	1093.4	1098.1
40°	968.4	996.5	1027.8	1054.3	1060.6
42.5°	916.9	952.8	985.6	1015.3	1024.7
45°	868.5	905.9	945.0	974.7	987.2
47.5°	816.9	859.1	902.8	935.6	945.0
50°	766.9	810.7	859.1	895.0	905.9
52.5°	713.8	760.7	815.4	852.8	866.9
55°	662.3	713.8	770.1	812.2	824.7
57.5°	612.3	665.4	726.3	768.5	782.5
60°	559.2	615.4	679.5	723.2	740.4
62.5°	509.2	567.0	635.7	679.5	695.1
65°	457.7	518.6	587.3	634.2	649.8
67.5°	406.1	470.2	538.9	590.4	602.9
70°	351.4	418.6	493.6	543.6	559.2
72.5°	301.5	368.6	446.7	498.3	513.9
75°	248.4	321.8	399.9	451.4	470.2
77.5°	203.1	276.5	354.6	409.2	423.3
80°	154.6	231.2	312.4	365.5	381.1
82.5°	112.5	190.6	273.3	326.5	342.1
85°	76.5	154.6	237.4	290.5	306.1
87.5°	46.9	125.0	204.6	257.7	273.3
90°	22.6	110.6	205.3	261.8	278.6
92.5°	36.0	155.0	378.1	288.7	290.6
95°	56.3	205.4	837.3	402.2	352.2
97.5°	77.8	217.6	1195.2	692.9	481.7
100°	99.3	224.6	1226.1	1228.8	918.6
102.5°	121.9	234.0	1141.9	1573.0	1329.1
105°	146.0	247.4	1042.7	1779.6	1639.3
107.5°	169.8	264.2	953.9	1863.5	1837.9
110°	195.9	281.6	880.5	1857.1	1946.7

TEST NUMBER: P1011288

CATALOG NUMBER: S123DIP-B1165D1195UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.2	300.0	827.4	1781.0	1961.5
115°	243.8	320.8	790.8	1672.8	1913.7
117.5°	268.0	338.6	761.8	1557.4	1823.8
120°	291.7	356.6	741.4	1447.8	1706.9
122.5°	313.6	375.0	725.5	1359.7	1598.5
125°	332.8	392.0	710.8	1280.0	1498.2
127.5°	348.9	411.2	699.5	1213.1	1410.5
130°	363.9	429.6	688.3	1150.8	1335.1
132.5°	373.8	446.4	679.3	1092.0	1264.0
135°	387.6	460.4	670.3	1032.9	1193.3
137.5°	400.3	473.0	661.8	975.2	1120.5
140°	411.4	484.5	654.3	920.2	1046.0
142.5°	425.3	493.3	645.8	867.6	974.4
145°	440.2	502.5	643.5	821.2	908.6
147.5°	453.6	512.3	640.1	783.5	852.4
150°	468.5	520.4	635.5	752.3	803.2
152.5°	483.5	529.0	629.7	729.3	765.6
155°	498.5	537.7	622.8	708.0	737.9
157.5°	510.0	545.1	617.1	687.2	711.5
160°	523.8	551.4	610.1	668.3	686.1
162.5°	534.2	556.0	603.2	650.4	663.1
165°	544.5	560.0	596.3	632.6	643.5
167.5°	552.6	563.5	589.4	617.1	624.0
170°	559.5	565.2	582.5	603.2	606.7
172.5°	564.1	567.0	576.8	591.2	590.6
175°	567.6	568.2	572.2	580.2	579.1
177.5°	569.9	568.7	568.7	573.3	571.0
180°	568.7	568.7	568.7	568.7	568.7

(END OF REPORT)