

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: P1011176

Luminaire Tested: S123DIP-B1000D585UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011176
REPORT IS A COMBINATION OF REPORTS P989239 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D585UB35-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

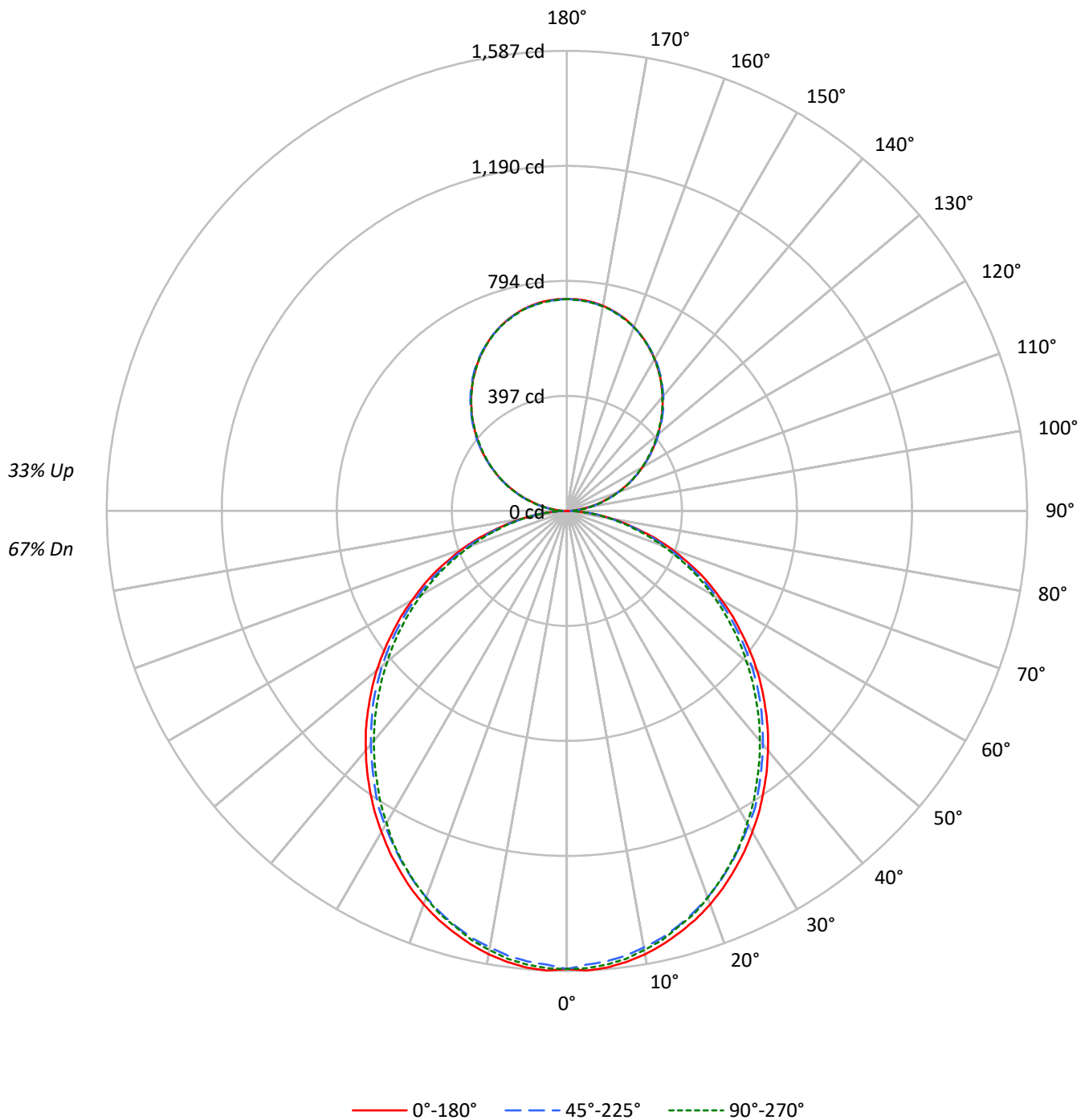
Lumens per Lamp: N/A
Luminaire Lumens: 6139.0 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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: P1011176

CATALOG NUMBER: S123DIP-B1000D585UB35-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1011176

CATALOG NUMBER: S123DIP-B1000D585UB35-4F0-XX-W2A-F1

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72
1	102	97	93	89	96	92	88	85	81	79	76	72	70	68	63	62	61
2	92	85	78	73	87	80	74	70	71	67	63	63	60	57	56	53	51
3	84	75	67	61	79	70	64	58	63	57	53	56	52	48	49	46	43
4	77	66	58	52	72	63	55	49	56	50	45	50	45	41	44	40	37
5	71	59	50	44	67	56	48	43	50	44	39	45	40	36	40	36	33
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	29
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	25
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17011	17011	17011
5°	17053	16424	16400
10°	16902	15868	15705
15°	16666	15289	14948
20°	16397	14649	14199
25°	16048	13971	13398
30°	15667	13270	12555
35°	15267	12554	11718
40°	14848	11803	10894
45°	14389	11071	10033
50°	13921	10253	9168
55°	13321	9403	8294
60°	12702	8465	7362
65°	12121	7450	6390
70°	11285	6325	5257
75°	10080	5009	4081
80°	8703	3521	2886
85°	6791	1891	1445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14389 cd/sqm

TEST NUMBER: P1011176

CATALOG NUMBER: S123DIP-B1000D585UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	2.4
10°-20°	420.7	6.9
20°-30°	621.3	10.1
30°-40°	725.6	11.8
40°-50°	729.5	11.9
50°-60°	640.8	10.4
60°-70°	477.3	7.8
70°-80°	271.6	4.4
80°-90°	78.8	1.3
90°-100°	47.0	0.8
100°-110°	142.4	2.3
110°-120°	242.3	3.9
120°-130°	318.8	5.2
130°-140°	358.4	5.8
140°-150°	352.3	5.7
150°-160°	296.6	4.8
160°-170°	197.5	3.2
170°-180°	69.1	1.1
0°-30°	1191.0	19.4
0°-40°	1916.6	31.2
0°-60°	3286.9	53.5
0°-90°	4114.6	67.0
90°-120°	431.8	7.0
90°-150°	1461.2	23.8
90°-180°	2024.0	33.0
0°-180°	6139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1582	1575	1560	1574	1571	150
15°	1506	1500	1482	1493	1485	425
25°	1367	1359	1341	1343	1338	630
35°	1182	1174	1156	1148	1142	740
45°	969	963	946	930	923	748
55°	735	734	716	701	694	659
65°	501	495	481	470	466	495
75°	265	260	256	249	245	283
85°	71	68	68	65	65	76
90°	1	6	14	16	17	7
95°	34	38	42	45	45	37
105°	129	130	136	136	137	138
115°	244	246	244	245	244	241
125°	357	359	358	355	353	318
135°	463	467	466	464	463	357
145°	562	563	565	564	562	351
155°	643	643	644	646	642	296
165°	701	699	699	702	698	198
175°	729	727	727	730	726	69
180°	731	731	731	731	731	

TEST NUMBER: P1011176

CATALOG NUMBER: S123DIP-B1000D585UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.4	1580.4	1580.4	1580.4	1580.4
2.5°	1587.2	1581.7	1566.8	1580.4	1579.0
5°	1581.7	1574.9	1560.0	1573.6	1570.9
7.5°	1569.5	1562.7	1547.8	1560.0	1558.6
10°	1553.2	1546.4	1528.7	1541.0	1538.2
12.5°	1531.4	1526.0	1509.7	1517.9	1516.5
15°	1505.6	1500.2	1482.5	1493.4	1485.2
17.5°	1477.1	1470.3	1452.6	1460.8	1458.1
20°	1444.5	1436.3	1418.7	1424.1	1420.0
22.5°	1407.8	1399.6	1382.0	1386.1	1380.6
25°	1367.0	1358.9	1341.2	1342.6	1338.5
27.5°	1324.9	1316.7	1297.7	1299.1	1295.0
30°	1278.7	1271.9	1252.9	1252.9	1243.4
32.5°	1232.5	1223.0	1209.4	1199.9	1195.8
35°	1182.2	1174.1	1156.4	1148.2	1141.5
37.5°	1131.9	1121.1	1103.4	1093.9	1089.8
40°	1078.9	1070.8	1051.8	1040.9	1035.5
42.5°	1025.9	1016.4	997.4	986.5	981.1
45°	968.9	963.4	945.8	929.5	922.7
47.5°	913.2	905.0	888.7	872.4	867.0
50°	856.1	849.3	831.6	816.7	808.5
52.5°	796.3	792.2	773.2	761.0	752.8
55°	735.2	733.8	716.1	701.2	694.4
57.5°	678.1	672.6	659.1	645.5	637.3
60°	615.6	614.2	597.9	585.7	578.9
62.5°	559.9	555.8	539.5	527.2	523.2
65°	501.4	494.6	481.0	470.2	466.1
67.5°	438.9	433.5	422.6	413.1	407.7
70°	383.2	375.0	366.9	357.4	350.6
72.5°	324.8	319.3	309.8	301.7	299.0
75°	265.0	259.5	255.5	248.7	244.6
77.5°	212.0	209.3	203.8	198.4	198.4
80°	160.3	156.3	153.6	152.2	152.2
82.5°	110.1	110.1	110.1	107.4	106.0
85°	70.7	67.9	67.9	65.2	65.2
87.5°	35.3	31.3	29.9	28.5	28.5
90°	0.6	6.3	13.8	16.1	17.2
92.5°	17.2	20.7	24.1	25.8	24.7
95°	33.9	37.9	42.5	44.8	44.8
97.5°	55.7	58.5	62.0	64.9	64.3
100°	78.1	81.5	84.4	86.1	87.2
102.5°	103.9	105.6	109.6	111.3	110.8
105°	129.1	130.3	135.5	135.5	136.6
107.5°	159.0	159.6	161.9	163.6	163.0
110°	186.5	187.7	188.8	191.1	190.0

TEST NUMBER: P1011176

CATALOG NUMBER: S123DIP-B1000D585UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.2	215.8	215.8	218.7	218.7
115°	243.9	245.6	244.5	245.1	244.5
117.5°	273.2	273.8	272.6	272.6	270.9
120°	300.2	303.6	300.7	300.2	299.0
122.5°	328.3	330.6	329.4	327.7	326.0
125°	357.0	358.7	357.6	355.3	353.0
127.5°	383.4	386.8	385.7	382.2	380.0
130°	409.8	414.4	412.7	410.4	406.4
132.5°	436.2	440.8	439.6	436.8	433.9
135°	463.2	466.6	466.0	463.7	462.6
137.5°	487.9	490.7	492.4	489.6	487.9
140°	513.7	516.6	517.1	516.6	512.5
142.5°	537.2	540.1	541.2	540.7	537.8
145°	561.9	563.0	564.8	564.2	561.9
147.5°	583.1	585.4	587.1	587.1	583.7
150°	605.5	606.7	607.8	607.8	604.4
152.5°	623.9	625.6	626.2	627.3	624.5
155°	643.4	643.4	644.0	646.3	642.2
157.5°	660.0	659.5	660.0	662.3	658.9
160°	675.5	674.4	674.4	677.3	675.0
162.5°	689.3	687.6	688.2	691.0	687.0
165°	700.8	699.1	699.1	702.5	698.5
167.5°	710.5	708.3	708.8	712.3	708.8
170°	718.6	716.3	716.3	720.3	716.3
172.5°	724.9	722.6	722.6	726.0	722.0
175°	728.9	726.6	726.6	730.1	726.0
177.5°	731.2	728.9	728.9	732.4	728.3
180°	730.6	730.6	730.6	730.6	730.6

(END OF REPORT)