

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: P1011045

Luminaire Tested: S123DIP-B1000D1025UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011045
REPORT IS A COMBINATION OF REPORTS P989060 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1025UB35-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

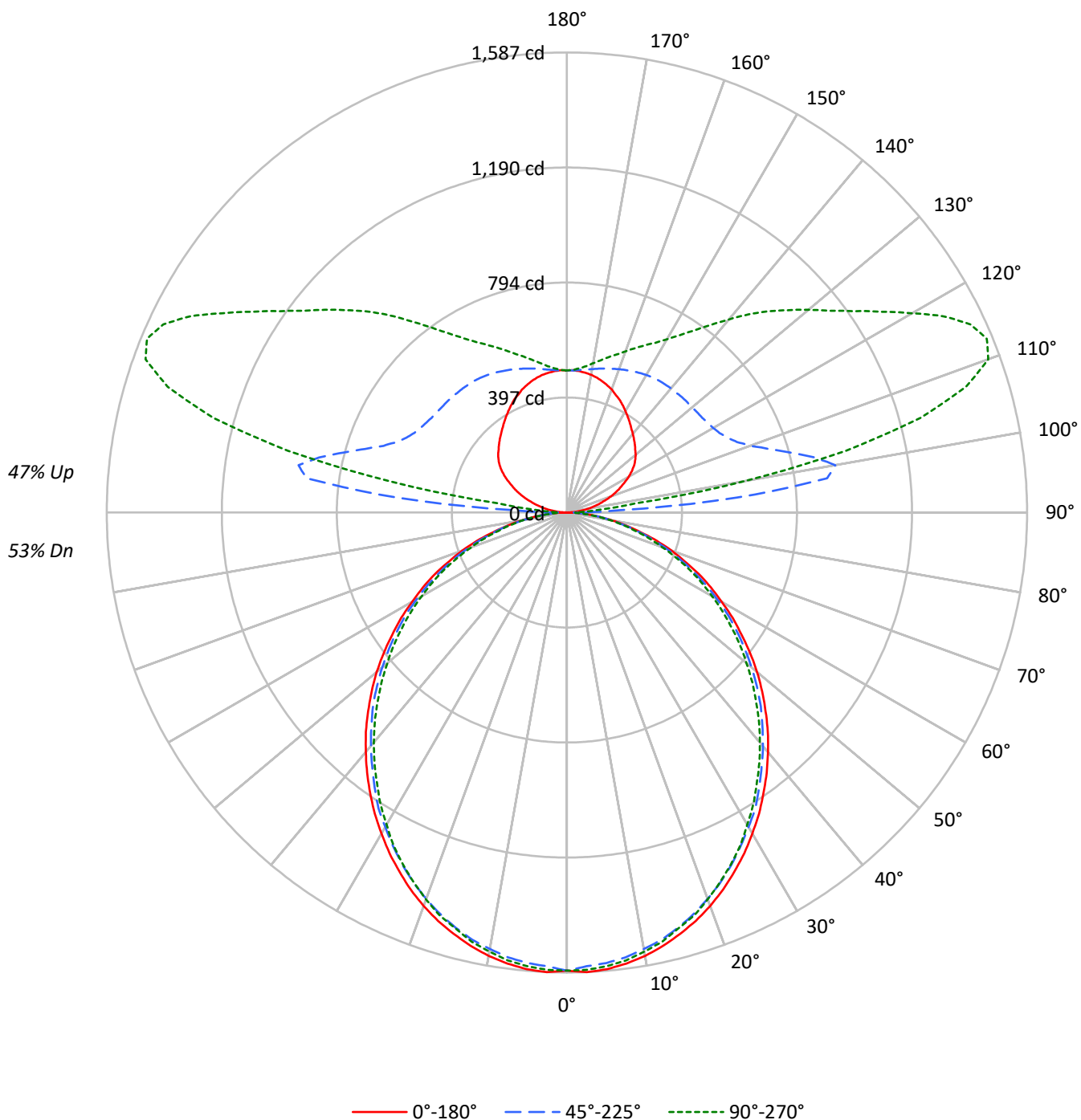
Lumens per Lamp: N/A
Luminaire Lumens: 7812.6 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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: P1011045

CATALOG NUMBER: S123DIP-B1000D1025UB35-4F0-XX-W2A-F4

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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59
1	98	94	90	86	91	87	84	81	74	72	70	63	61	59	52	50	49
2	90	82	76	71	83	76	71	66	65	61	58	55	52	49	45	43	42
3	82	72	65	59	75	67	60	55	57	52	48	48	45	42	40	38	35
4	75	64	56	50	69	59	52	47	51	46	41	43	39	36	36	33	30
5	69	57	49	43	63	53	46	40	46	40	36	39	34	31	32	29	26
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	29	26	23
7	58	46	38	32	54	43	36	31	37	31	27	32	27	24	27	23	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	21	25	21	19
9	50	38	31	26	47	36	29	24	31	26	22	27	22	19	23	19	17
10	47	35	28	23	44	33	26	22	29	23	20	25	20	17	21	18	15

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: P1011045

CATALOG NUMBER: S123DIP-B1000D1025UB35-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	1.9
10°-20°	420.7	5.4
20°-30°	621.3	8.0
30°-40°	725.6	9.3
40°-50°	729.5	9.3
50°-60°	640.8	8.2
60°-70°	477.3	6.1
70°-80°	271.6	3.5
80°-90°	80.0	1.0
90°-100°	278.6	3.6
100°-110°	778.8	10.0
110°-120°	759.4	9.7
120°-130°	604.7	7.7
130°-140°	477.3	6.1
140°-150°	356.1	4.6
150°-160°	248.4	3.2
160°-170°	145.9	1.9
170°-180°	47.5	0.6
0°-30°	1191.0	15.2
0°-40°	1916.6	24.5
0°-60°	3286.9	42.1
0°-90°	4115.8	52.7
90°-120°	1816.8	23.3
90°-150°	3255.0	41.7
90°-180°	3697.0	47.3
0°-180°	7812.6	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°	2	12	25	28	29	7
95°	34	110	589	172	115	36
105°	115	170	798	1396	1262	122
115°	204	254	610	1338	1536	201
125°	283	334	570	1032	1211	251
135°	332	396	562	850	982	256
145°	378	433	555	697	767	237
155°	430	464	537	610	636	198
165°	470	483	514	545	555	132
175°	489	490	493	500	499	46
180°	490	490	490	490	490	

TEST NUMBER: P1011045

CATALOG NUMBER: S123DIP-B1000D1025UB35-4F0-XX-W2A-F4

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°	2.0	11.9	24.8	27.8	28.8
92.5°	14.9	59.6	184.6	63.0	52.6
95°	33.7	109.6	588.6	171.7	115.1
97.5°	53.6	125.6	905.2	431.8	236.2
100°	73.4	138.4	940.0	903.2	622.3
102.5°	94.3	153.4	875.4	1209.4	985.6
105°	115.1	170.2	798.0	1395.5	1262.5
107.5°	137.0	190.1	729.5	1477.4	1443.2
110°	160.8	210.4	673.0	1480.0	1546.4

TEST NUMBER: P1011045

CATALOG NUMBER: S123DIP-B1000D1025UB35-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.6	231.8	635.2	1423.8	1567.3
115°	203.5	253.6	610.4	1338.5	1535.5
117.5°	224.3	274.4	593.6	1247.2	1466.0
120°	246.2	295.3	582.6	1160.8	1374.7
122.5°	265.0	315.1	575.7	1092.8	1289.3
125°	282.9	334.0	569.7	1032.3	1210.9
127.5°	296.8	351.9	566.8	982.6	1143.4
130°	309.7	367.7	563.8	937.0	1087.8
132.5°	319.6	382.1	562.8	894.3	1033.3
135°	331.5	395.5	561.8	850.1	981.6
137.5°	342.4	406.4	559.8	808.4	927.1
140°	353.4	416.4	558.8	767.8	869.5
142.5°	365.3	425.3	556.8	730.6	815.9
145°	378.2	433.2	554.8	697.3	767.3
147.5°	391.1	441.7	551.9	671.4	725.6
150°	404.0	448.6	547.9	648.7	689.8
152.5°	416.9	456.0	542.9	628.8	660.1
155°	429.8	463.6	537.0	610.4	636.2
157.5°	439.7	470.0	532.0	592.6	613.4
160°	451.6	475.4	526.1	576.2	591.6
162.5°	460.5	479.4	520.1	560.8	571.7
165°	469.5	482.9	514.1	545.4	554.8
167.5°	476.4	485.8	508.2	532.0	538.0
170°	482.4	487.4	502.2	520.1	523.1
172.5°	486.4	488.8	497.3	509.7	509.2
175°	489.3	489.8	493.3	500.3	499.3
177.5°	491.3	490.3	490.3	494.3	492.3
180°	490.3	490.3	490.3	490.3	490.3

(END OF REPORT)