

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: P1011040

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011040
REPORT IS A COMBINATION OF REPORTS P989055 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-D
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

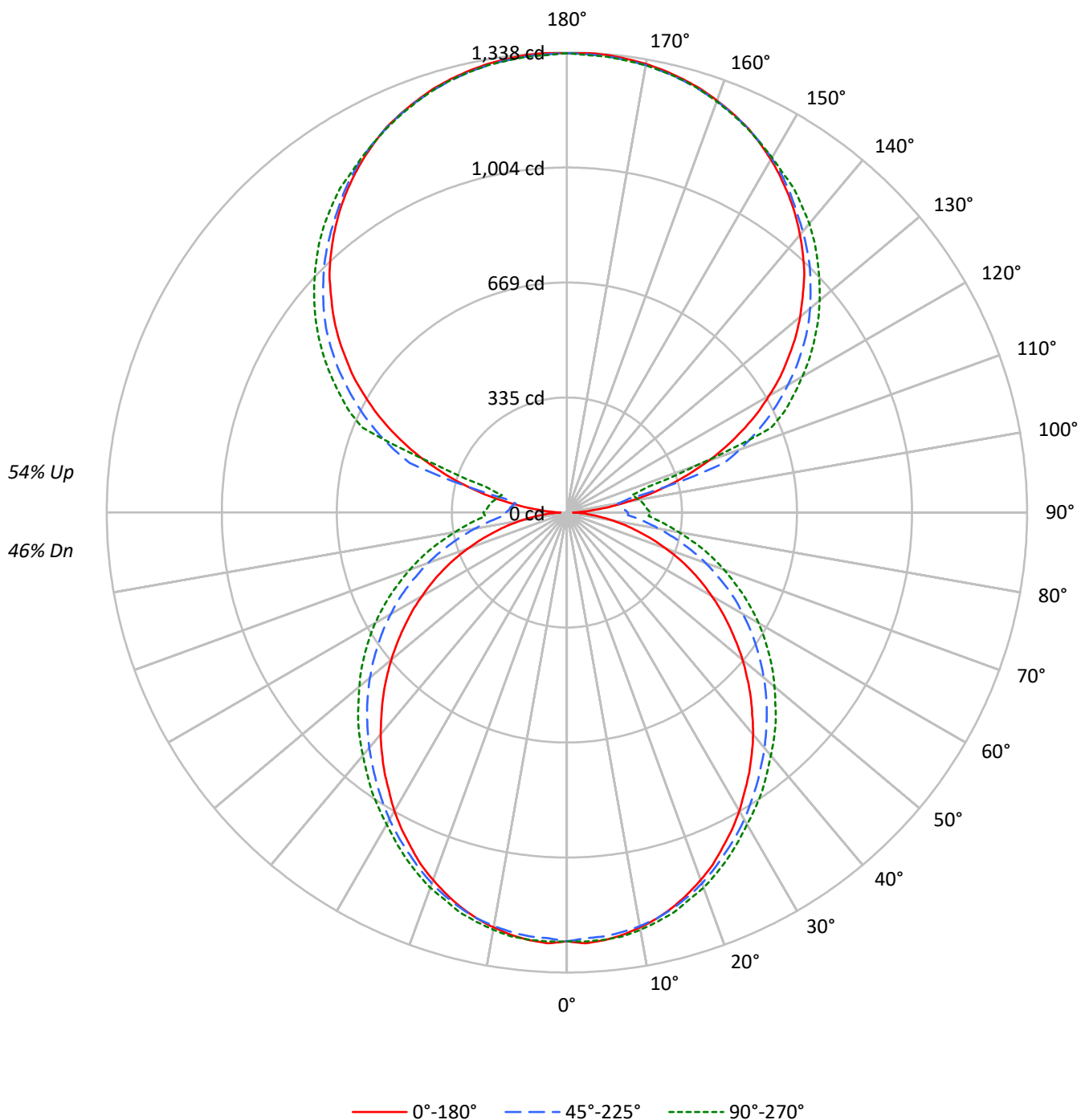
Lumens per Lamp: N/A
Luminaire Lumens: 8267.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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: P1011040

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

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
RCR																	
0	106	106	106	106	98	98	98	98	81	81	81		67	67	67		53
1	96	91	87	83	88	84	80	77	70	67	65		57	55	53		45
2	87	79	73	67	79	73	67	62	61	56	53		50	46	44		39
3	79	69	62	55	72	64	57	52	53	48	44		43	40	37		34
4	72	61	53	47	66	56	49	43	47	42	37		39	34	31		31
5	66	54	46	40	60	50	43	37	42	36	32		34	30	27		27
6	61	49	40	34	56	45	37	32	38	32	28		31	27	23		25
7	56	44	36	30	51	40	33	28	34	28	24		28	24	21		23
8	52	40	32	26	48	37	30	25	31	25	21		26	21	18		21
9	49	36	29	23	44	33	27	22	28	23	19		24	19	16		19
10	45	33	26	21	41	31	24	20	26	21	17		22	18	15		18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13426	13426	13426
5°	13463	13032	13021
10°	13337	12679	12583
15°	13160	12289	12116
20°	12910	11855	11616
25°	12602	11366	11098
30°	12287	10923	10578
35°	11931	10459	10154
40°	11594	10033	9706
45°	11220	9621	9337
50°	10848	9214	8937
55°	10439	8796	8568
60°	10037	8369	8190
65°	9624	7913	7749
70°	9003	7402	7293
75°	8217	6818	6823
80°	7302	6228	6287
85°	6397	5750	5902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11220 cd/sqm

TEST NUMBER: P1011040

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.3	1.4
10°-20°	337.3	4.1
20°-30°	504.4	6.1
30°-40°	602.3	7.3
40°-50°	630.1	7.6
50°-60°	591.3	7.2
60°-70°	493.9	6.0
70°-80°	353.2	4.3
80°-90°	212.8	2.6
90°-100°	179.2	2.2
100°-110°	324.8	3.9
110°-120°	622.9	7.5
120°-130°	745.5	9.0
130°-140°	773.5	9.4
140°-150°	711.2	8.6
150°-160°	570.9	6.9
160°-170°	368.4	4.5
170°-180°	127.0	1.5
0°-30°	960.1	11.6
0°-40°	1562.3	18.9
0°-60°	2783.8	33.7
0°-90°	3843.7	46.5
90°-120°	1126.9	13.6
90°-150°	3357.1	40.6
90°-180°	4423.0	53.5
0°-180°	8267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1249	1246	1238	1249	1247	118
15°	1189	1193	1192	1205	1204	335
25°	1073	1087	1091	1109	1109	495
35°	924	946	963	984	989	578
45°	756	788	822	848	859	583
55°	576	621	670	706	717	516
65°	398	451	511	552	565	394
75°	216	280	348	393	409	231
85°	67	134	206	253	266	69
90°	19	95	177	228	243	16
95°	75	88	165	214	228	84
105°	307	350	319	182	196	325
115°	562	584	642	684	699	555
125°	786	794	837	868	879	703
135°	976	981	1000	1027	1031	752
145°	1125	1130	1132	1145	1151	704
155°	1238	1236	1237	1242	1236	570
165°	1305	1302	1301	1309	1302	369
175°	1336	1331	1332	1339	1331	127
180°	1336	1336	1336	1336	1336	

TEST NUMBER: P1011040

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1247.3	1247.3	1247.3	1247.3	1247.3
2.5°	1254.1	1250.0	1239.2	1250.0	1248.7
5°	1248.7	1246.0	1237.8	1248.7	1247.3
7.5°	1239.2	1239.2	1231.0	1244.6	1243.3
10°	1225.6	1228.3	1221.5	1235.1	1232.4
12.5°	1209.3	1213.4	1209.3	1221.5	1218.8
15°	1188.9	1193.0	1191.6	1205.2	1203.8
17.5°	1164.4	1172.6	1171.2	1183.5	1180.7
20°	1137.3	1145.4	1148.1	1160.4	1161.7
22.5°	1108.7	1116.9	1121.0	1137.3	1135.9
25°	1073.4	1087.0	1091.1	1108.7	1108.7
27.5°	1039.4	1054.4	1062.5	1077.5	1078.8
30°	1002.8	1020.4	1031.3	1047.6	1047.6
32.5°	962.0	982.4	997.3	1015.0	1019.1
35°	923.9	945.7	963.4	983.7	989.2
37.5°	883.2	907.6	928.0	951.1	955.2
40°	842.4	866.9	894.1	917.2	922.6
42.5°	797.6	828.8	857.4	883.2	891.3
45°	755.5	788.1	822.0	847.9	858.7
47.5°	710.6	747.3	785.4	813.9	822.0
50°	667.1	705.2	747.3	778.6	788.1
52.5°	620.9	661.7	709.3	741.9	754.1
55°	576.1	620.9	669.9	706.5	717.4
57.5°	532.6	578.8	631.8	668.5	680.7
60°	486.4	535.3	591.1	629.1	644.0
62.5°	443.0	493.2	553.0	591.1	604.6
65°	398.1	451.1	510.9	551.7	565.2
67.5°	353.3	409.0	468.8	513.6	524.5
70°	305.7	364.1	429.4	472.8	486.4
72.5°	262.2	320.7	388.6	433.4	447.0
75°	216.0	279.9	347.8	392.7	409.0
77.5°	176.6	240.5	308.4	356.0	368.2
80°	134.5	201.1	271.7	317.9	331.5
82.5°	97.8	165.8	237.8	284.0	297.6
85°	66.6	134.5	206.5	252.7	266.3
87.5°	40.8	108.7	178.0	224.2	237.8
90°	18.7	95.1	177.3	227.5	243.1
92.5°	39.1	91.6	168.5	220.3	233.4
95°	75.4	87.7	165.3	214.3	227.9
97.5°	123.8	144.9	158.2	206.8	221.4
100°	179.9	243.3	151.0	198.3	212.9
102.5°	244.1	295.0	183.5	188.8	204.4
105°	306.6	350.2	319.2	181.7	195.9
107.5°	371.7	409.2	479.9	363.6	245.9
110°	436.9	469.3	534.6	537.1	406.1

TEST NUMBER: P1011040

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	500.4	526.4	588.9	631.8	642.1
115°	561.6	583.8	641.7	684.2	699.0
117.5°	623.1	640.9	692.1	732.6	744.4
120°	678.3	694.0	741.9	781.0	790.5
122.5°	735.8	745.6	791.6	826.5	837.0
125°	786.1	794.1	837.4	867.9	879.4
127.5°	837.7	844.3	883.2	913.4	920.9
130°	885.4	891.9	923.1	952.9	959.1
132.5°	929.6	937.6	960.9	989.4	995.9
135°	976.3	980.9	999.8	1027.3	1031.1
137.5°	1016.0	1022.6	1034.1	1060.8	1065.6
140°	1054.4	1060.3	1067.3	1091.7	1096.5
142.5°	1091.1	1095.6	1098.6	1119.3	1123.1
145°	1124.8	1130.4	1132.4	1145.2	1150.6
147.5°	1156.2	1161.1	1163.1	1169.2	1169.7
150°	1186.0	1188.9	1190.9	1192.9	1192.6
152.5°	1212.7	1213.7	1214.7	1218.7	1213.7
155°	1237.6	1235.6	1236.6	1241.5	1235.6
157.5°	1257.4	1257.4	1256.4	1262.4	1254.4
160°	1275.3	1274.3	1273.3	1279.2	1272.3
162.5°	1292.1	1289.2	1288.2	1295.1	1289.2
165°	1305.0	1302.1	1301.1	1309.0	1302.1
167.5°	1316.0	1312.0	1312.0	1319.9	1312.0
170°	1324.9	1320.9	1320.9	1328.9	1320.9
172.5°	1330.8	1325.9	1326.9	1334.8	1325.9
175°	1335.8	1330.8	1331.8	1338.8	1330.8
177.5°	1337.8	1332.8	1333.8	1341.8	1331.8
180°	1335.8	1335.8	1335.8	1335.8	1335.8

(END OF REPORT)