

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: P1011050

Luminaire Tested: S123DIP-B1000D1025UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011050
REPORT IS A COMBINATION OF REPORTS P989065 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D1025UB40-4F0-XX-W2A-D1
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

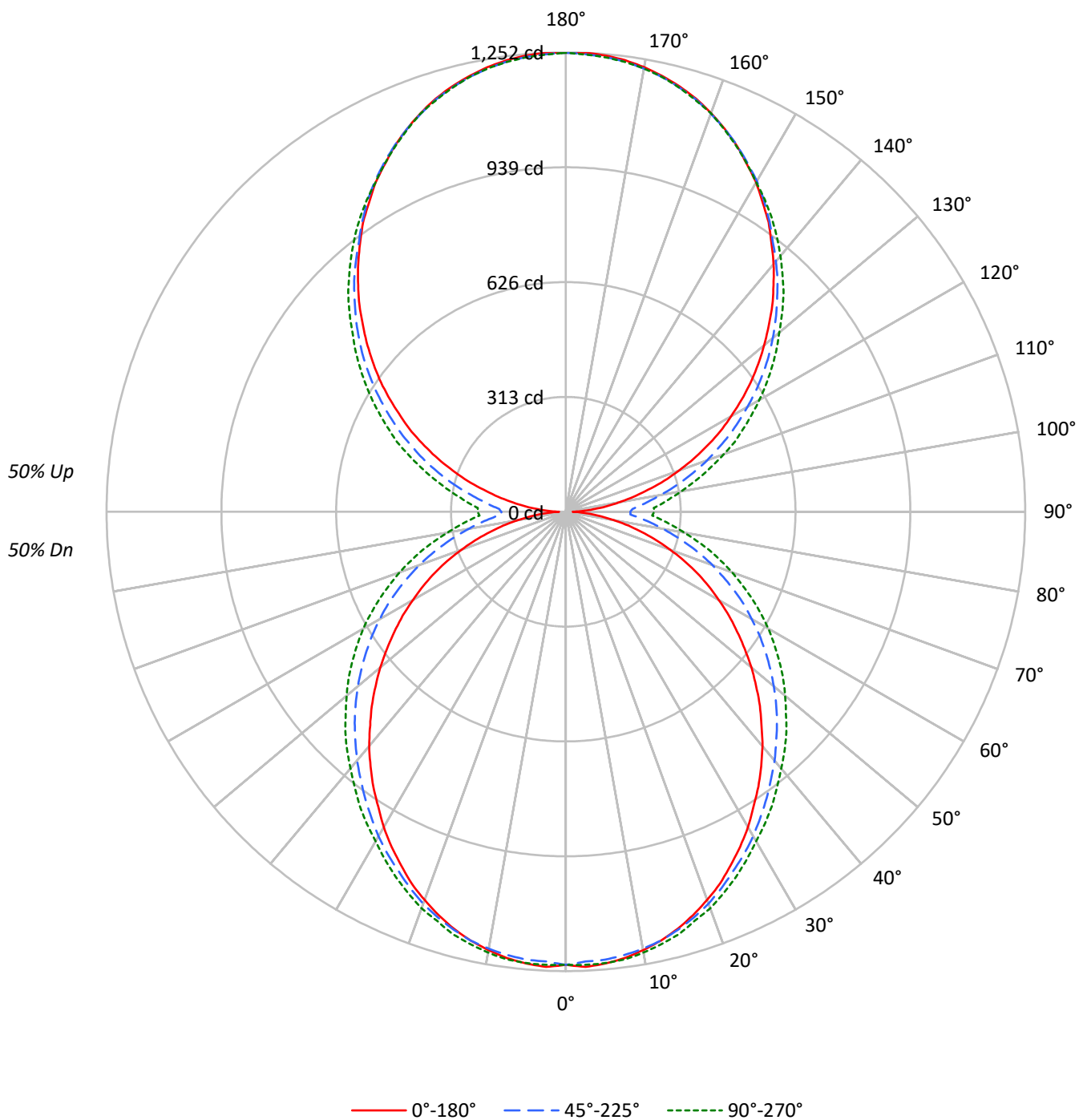
Lumens per Lamp: N/A
Luminaire Lumens: 7619.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1011050

CATALOG NUMBER: S123DIP-B1000D1025UB40-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1011050

CATALOG NUMBER: S123DIP-B1000D1025UB40-4F0-XX-W2A-D1

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	99	99	99	99	83	83	83	69	69	69	56	56	56
1	97	92	88	84	89	85	81	78	71	69	66	59	57	55	48	47	45
2	88	80	73	68	80	74	68	63	62	58	54	51	48	45	42	39	37
3	80	70	62	56	73	64	58	52	54	49	45	45	41	38	36	34	31
4	73	61	53	47	67	57	50	44	48	42	38	40	36	32	32	29	27
5	67	55	46	40	61	51	43	37	43	37	33	36	31	28	29	26	23
6	61	49	41	35	56	45	38	32	39	33	28	32	28	24	26	23	20
7	57	44	36	30	52	41	34	28	35	29	25	29	25	21	24	21	18
8	53	40	32	27	48	37	30	25	32	26	22	27	22	19	22	19	16
9	49	36	29	24	45	34	27	22	29	24	20	25	20	17	20	17	14
10	46	33	26	21	42	31	24	20	27	21	18	23	18	15	19	15	13

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: P1011050

CATALOG NUMBER: S123DIP-B1000D1025UB40-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	1.5
10°-20°	333.9	4.4
20°-30°	499.4	6.6
30°-40°	596.2	7.8
40°-50°	623.8	8.2
50°-60°	585.4	7.7
60°-70°	489.0	6.4
70°-80°	349.6	4.6
80°-90°	210.7	2.8
90°-100°	211.3	2.8
100°-110°	339.8	4.5
110°-120°	479.1	6.3
120°-130°	582.5	7.6
130°-140°	630.0	8.3
140°-150°	606.7	8.0
150°-160°	507.9	6.7
160°-170°	338.1	4.4
170°-180°	118.4	1.6
0°-30°	950.4	12.5
0°-40°	1546.6	20.3
0°-60°	2755.9	36.2
0°-90°	3805.2	49.9
90°-120°	1030.2	13.5
90°-150°	2849.5	37.4
90°-180°	3814.0	50.1
0°-180°	7619.0	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°	18	94	176	225	241	17
95°	73	132	206	252	265	75
105°	232	266	333	370	385	248
115°	424	444	490	523	533	420
125°	615	618	655	680	685	549
135°	796	800	814	834	839	613
145°	963	964	967	977	978	601
155°	1102	1102	1103	1107	1100	507
165°	1200	1197	1197	1203	1196	338
175°	1248	1244	1244	1250	1243	119
180°	1251	1251	1251	1251	1251	

TEST NUMBER: P1011050

CATALOG NUMBER: S123DIP-B1000D1025UB40-4F0-XX-W2A-D1

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°	18.5	94.2	175.6	225.2	240.7
92.5°	45.6	109.4	182.5	229.8	240.0
95°	72.8	132.2	205.9	251.6	265.0
97.5°	108.8	162.1	231.2	276.5	289.0
100°	145.8	194.7	261.5	303.4	318.9
102.5°	188.7	229.2	296.7	337.3	349.8
105°	231.9	266.1	332.8	370.4	384.6
107.5°	281.6	310.9	369.9	409.2	420.3
110°	327.5	353.7	409.4	448.4	457.1

TEST NUMBER: P1011050

CATALOG NUMBER: S123DIP-B1000D1025UB40-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.6	396.4	447.5	486.0	498.2
115°	424.4	443.5	489.9	523.2	532.9
117.5°	474.5	486.3	530.0	562.3	570.2
120°	519.4	532.0	571.5	601.4	608.8
122.5°	567.5	574.2	613.9	640.5	647.0
125°	615.3	618.2	655.2	679.6	685.1
127.5°	660.5	665.1	696.7	717.7	723.2
130°	705.7	712.2	736.2	757.9	759.0
132.5°	749.6	757.4	775.7	795.0	799.4
135°	795.8	800.3	814.1	834.5	839.2
137.5°	838.0	841.5	854.0	870.6	874.3
140°	880.8	885.8	890.8	910.1	909.9
142.5°	921.1	924.8	926.7	943.2	945.0
145°	963.4	964.1	967.0	976.8	978.2
147.5°	998.5	1002.4	1005.3	1009.3	1008.8
150°	1036.8	1038.8	1040.7	1040.7	1037.5
152.5°	1068.2	1071.2	1072.2	1074.1	1069.2
155°	1101.6	1101.6	1102.6	1106.6	1099.7
157.5°	1130.1	1129.2	1130.1	1134.1	1128.2
160°	1156.7	1154.7	1154.7	1159.6	1155.7
162.5°	1180.3	1177.3	1178.3	1183.2	1176.3
165°	1199.9	1197.0	1197.0	1202.9	1196.0
167.5°	1216.6	1212.7	1213.7	1219.6	1213.7
170°	1230.4	1226.5	1226.5	1233.3	1226.5
172.5°	1241.2	1237.3	1237.3	1243.2	1236.3
175°	1248.1	1244.1	1244.1	1250.0	1243.2
177.5°	1252.0	1248.1	1248.1	1254.0	1247.1
180°	1251.0	1251.0	1251.0	1251.0	1251.0

(END OF REPORT)