

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: P1010549

Luminaire Tested: S123DIP-B340D1025UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010549
REPORT IS A COMBINATION OF REPORTS P989633 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1025UB2750-4F0-XX-W2A-D_2700K
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

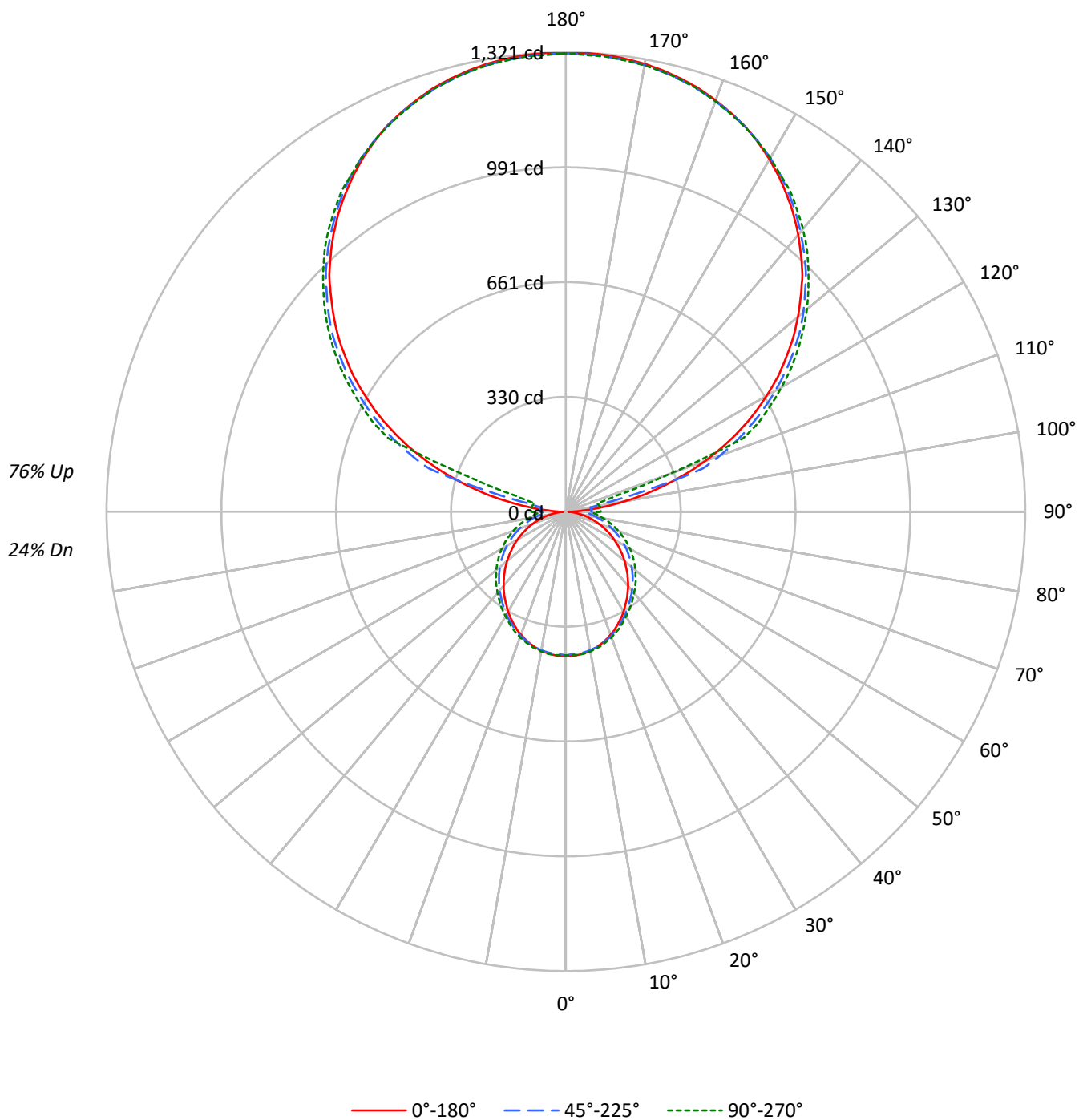
Lumens per Lamp: N/A
Luminaire Lumens: 5410.0 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
Input Voltage (V): 120
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

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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	101	101	101	101	90	90	90	90	69	69	69		49	49	49		32
1	91	87	83	80	81	77	74	71	59	57	55		43	41	40		27
2	83	76	70	64	73	67	62	58	52	48	45		37	35	33		24
3	75	66	59	53	67	59	53	48	45	41	38		33	30	28		21
4	69	58	51	45	61	52	45	40	40	35	32		29	26	23		18
5	63	52	44	38	56	46	39	34	36	31	27		26	23	20		17
6	58	46	38	33	51	41	35	30	32	27	23		23	20	17		15
7	53	41	34	28	47	37	30	26	29	24	20		21	18	15		14
8	49	37	30	25	44	34	27	23	26	21	18		19	16	13		12
9	46	34	27	22	41	31	24	20	24	19	16		17	14	12		11
10	43	31	24	19	38	28	22	18	22	17	14		16	13	11		11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4442	4442	4442
5°	4455	4312	4308
10°	4413	4196	4164
15°	4355	4066	4009
20°	4272	3923	3844
25°	4170	3760	3672
30°	4065	3614	3500
35°	3948	3460	3360
40°	3836	3319	3212
45°	3713	3184	3089
50°	3589	3049	2956
55°	3454	2910	2835
60°	3320	2769	2710
65°	3184	2617	2564
70°	2980	2450	2412
75°	2720	2256	2257
80°	2416	2061	2080
85°	2113	1902	1953

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3713 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	0.7
10°-20°	111.6	2.1
20°-30°	166.9	3.1
30°-40°	199.3	3.7
40°-50°	208.5	3.9
50°-60°	195.6	3.6
60°-70°	163.4	3.0
70°-80°	116.9	2.2
80°-90°	72.2	1.3
90°-100°	90.2	1.7
100°-110°	257.0	4.7
110°-120°	572.4	10.6
120°-130°	711.7	13.2
130°-140°	752.7	13.9
140°-150°	699.9	12.9
150°-160°	563.6	10.4
160°-170°	363.7	6.7
170°-180°	125.3	2.3
0°-30°	317.7	5.9
0°-40°	516.9	9.6
0°-60°	921.1	17.0
0°-90°	1273.5	23.5
90°-120°	919.6	17.0
90°-150°	3083.8	57.0
90°-180°	4136.0	76.5
0°-180°	5410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	413	413	413	413	413	
5°	413	412	410	413	413	39
15°	393	395	394	399	398	111
25°	355	360	361	367	367	164
35°	306	313	319	326	327	191
45°	250	261	272	280	284	193
55°	191	206	222	234	237	171
65°	132	149	169	182	187	130
75°	72	93	115	130	135	76
85°	22	44	68	84	88	23
90°	7	39	74	94	100	8
95°	65	42	75	96	100	75
105°	296	317	248	88	94	313
115°	550	561	586	607	614	543
125°	773	781	798	810	815	691
135°	962	967	976	987	987	741
145°	1110	1116	1118	1124	1125	695
155°	1222	1220	1221	1226	1220	563
165°	1288	1286	1284	1292	1286	364
175°	1319	1314	1315	1322	1314	126
180°	1319	1319	1319	1319	1319	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	412.7	412.7	412.7	412.7	412.7
2.5°	414.9	413.6	410.0	413.6	413.2
5°	413.2	412.3	409.6	413.2	412.7
7.5°	410.0	410.0	407.3	411.8	411.4
10°	405.5	406.4	404.2	408.7	407.8
12.5°	400.1	401.5	400.1	404.2	403.3
15°	393.4	394.7	394.3	398.8	398.3
17.5°	385.3	388.0	387.5	391.6	390.7
20°	376.3	379.0	379.9	383.9	384.4
22.5°	366.8	369.5	370.9	376.3	375.8
25°	355.2	359.7	361.0	366.8	366.8
27.5°	343.9	348.9	351.6	356.5	357.0
30°	331.8	337.6	341.2	346.6	346.6
32.5°	318.3	325.0	330.0	335.8	337.2
35°	305.7	312.9	318.7	325.5	327.3
37.5°	292.2	300.3	307.1	314.7	316.0
40°	278.7	286.8	295.8	303.5	305.3
42.5°	263.9	274.2	283.7	292.2	294.9
45°	250.0	260.7	272.0	280.5	284.1
47.5°	235.1	247.3	259.8	269.3	272.0
50°	220.7	233.3	247.3	257.6	260.7
52.5°	205.5	218.9	234.7	245.5	249.5
55°	190.6	205.5	221.6	233.8	237.4
57.5°	176.2	191.5	209.0	221.2	225.2
60°	160.9	177.1	195.6	208.1	213.1
62.5°	146.6	163.2	183.0	195.6	200.1
65°	131.7	149.3	169.0	182.5	187.0
67.5°	116.9	135.3	155.1	169.9	173.5
70°	101.2	120.5	142.1	156.4	160.9
72.5°	86.8	106.1	128.6	143.4	147.9
75°	71.5	92.6	115.1	129.9	135.3
77.5°	58.4	79.6	102.1	117.8	121.8
80°	44.5	66.5	89.9	105.2	109.7
82.5°	32.4	54.8	78.7	94.0	98.5
85°	22.0	44.5	68.3	83.6	88.1
87.5°	13.5	36.0	58.9	74.2	78.7
90°	6.8	38.7	74.3	93.5	100.0
92.5°	27.9	41.4	72.7	94.3	99.4
95°	64.7	42.1	74.9	95.6	100.1
97.5°	113.3	102.0	73.2	94.5	100.0
100°	169.6	203.6	71.4	92.3	97.8
102.5°	233.8	259.2	108.9	89.2	95.6
105°	295.6	317.1	248.3	87.5	93.5
107.5°	360.7	379.0	412.1	273.4	149.1
110°	426.0	441.9	470.7	450.0	313.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	488.7	501.8	529.7	549.7	551.9
115°	549.9	561.2	586.2	606.8	614.3
117.5°	610.6	621.1	641.3	659.9	664.5
120°	666.1	677.1	694.9	713.1	716.3
122.5°	722.9	730.7	748.5	763.3	767.5
125°	773.4	781.2	798.2	809.6	814.7
127.5°	824.3	831.7	847.8	859.8	861.0
130°	871.3	878.8	891.7	904.1	904.8
132.5°	916.0	923.8	933.5	945.5	945.8
135°	962.1	967.4	976.3	987.4	986.6
137.5°	1001.2	1008.6	1013.7	1025.8	1026.1
140°	1039.9	1045.8	1050.1	1060.8	1061.1
142.5°	1076.2	1081.7	1084.6	1093.3	1092.7
145°	1109.5	1116.0	1117.9	1123.5	1125.3
147.5°	1141.4	1146.3	1148.3	1151.5	1148.4
150°	1170.8	1173.8	1175.7	1177.7	1175.6
152.5°	1197.3	1198.3	1199.2	1203.2	1198.3
155°	1221.8	1219.8	1220.8	1225.7	1219.8
157.5°	1241.4	1241.4	1240.4	1246.3	1238.4
160°	1259.0	1258.0	1257.0	1262.9	1256.1
162.5°	1275.7	1272.7	1271.7	1278.6	1272.7
165°	1288.4	1285.5	1284.5	1292.3	1285.5
167.5°	1299.2	1295.3	1295.3	1303.1	1295.3
170°	1308.0	1304.1	1304.1	1311.9	1304.1
172.5°	1313.9	1309.0	1309.9	1317.8	1309.0
175°	1318.8	1313.9	1314.8	1321.7	1313.9
177.5°	1320.7	1315.8	1316.8	1324.6	1314.8
180°	1318.8	1318.8	1318.8	1318.8	1318.8

(END OF REPORT)