

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: P1010555

Luminaire Tested: S123DIP-B340D1025UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010555
REPORT IS A COMBINATION OF REPORTS P989639 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1025UB2750-4F0-XX-W2A-F_3000K
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

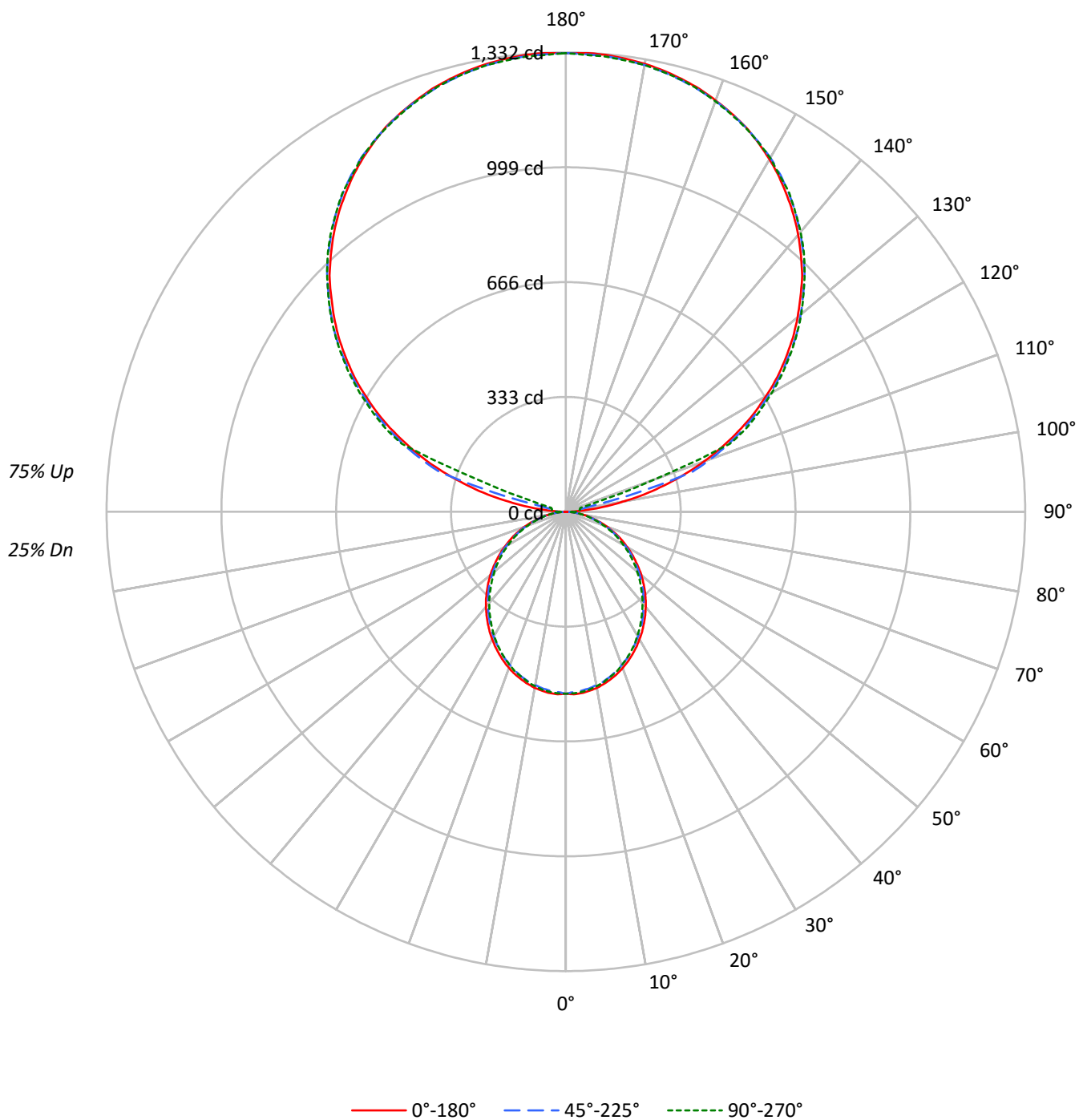
Lumens per Lamp: N/A
Luminaire Lumens: 5430.0 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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

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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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	101	101	101	101	90	90	90	90	70	70	70		51	51	51		33	33	33	25
1	92	88	84	81	82	79	75	73	61	59	57		44	43	42		29	29	28	21
2	84	77	71	66	75	69	64	59	53	50	47		39	37	35		26	25	24	18
3	76	67	60	55	68	60	54	50	47	43	39		34	32	30		23	21	20	15
4	70	60	52	46	62	53	47	42	42	37	33		31	28	25		20	19	17	13
5	64	53	45	39	57	47	41	36	37	32	29		27	24	22		18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25		25	21	19		17	15	13	10
7	54	42	35	30	48	38	32	27	30	25	22		22	19	17		15	13	12	9
8	50	38	31	26	45	35	28	24	27	23	19		20	17	15		14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17		19	15	13		13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15		17	14	12		12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5679	5679	5679
5°	5693	5483	5475
10°	5642	5297	5243
15°	5564	5104	4990
20°	5474	4890	4740
25°	5357	4664	4472
30°	5230	4429	4191
35°	5096	4190	3911
40°	4957	3940	3637
45°	4803	3695	3349
50°	4647	3423	3061
55°	4446	3140	2769
60°	4240	2826	2457
65°	4047	2487	2133
70°	3767	2112	1754
75°	3366	1672	1363
80°	2904	1176	963
85°	2267	632	483

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4803 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	0.9
10°-20°	140.4	2.6
20°-30°	207.4	3.8
30°-40°	242.2	4.5
40°-50°	243.5	4.5
50°-60°	213.9	3.9
60°-70°	159.3	2.9
70°-80°	90.7	1.7
80°-90°	28.4	0.5
90°-100°	46.9	0.9
100°-110°	226.7	4.2
110°-120°	555.6	10.2
120°-130°	705.4	13.0
130°-140°	753.5	13.9
140°-150°	704.6	13.0
150°-160°	568.4	10.5
160°-170°	366.8	6.8
170°-180°	126.4	2.3
0°-30°	397.6	7.3
0°-40°	639.8	11.8
0°-60°	1097.2	20.2
0°-90°	1375.7	25.3
90°-120°	829.3	15.3
90°-150°	2992.8	55.1
90°-180°	4054.0	74.7
0°-180°	5430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	528	528	528	528	528	
5°	528	526	521	525	524	50
15°	503	501	495	498	496	142
25°	456	454	448	448	447	210
35°	395	392	386	383	381	247
45°	323	322	316	310	308	250
55°	245	245	239	234	232	220
65°	167	165	161	157	156	165
75°	88	87	85	83	82	94
85°	24	23	23	22	22	25
90°	1	11	24	28	30	5
95°	60	20	31	38	38	72
105°	294	305	216	42	44	312
115°	552	558	567	577	581	545
125°	779	786	790	792	794	696
135°	969	975	979	982	979	746
145°	1118	1125	1127	1129	1129	700
155°	1232	1230	1231	1236	1230	568
165°	1299	1296	1295	1303	1296	367
175°	1330	1325	1326	1333	1325	127
180°	1330	1330	1330	1330	1330	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	527.6	527.6	527.6	527.6	527.6
2.5°	529.8	528.0	523.0	527.6	527.1
5°	528.0	525.7	520.8	525.3	524.4
7.5°	523.9	521.7	516.7	520.8	520.3
10°	518.5	516.2	510.3	514.4	513.5
12.5°	511.2	509.4	504.0	506.7	506.2
15°	502.6	500.8	494.9	498.5	495.8
17.5°	493.1	490.8	484.9	487.6	486.7
20°	482.2	479.5	473.6	475.4	474.0
22.5°	469.9	467.2	461.3	462.7	460.9
25°	456.3	453.6	447.7	448.2	446.8
27.5°	442.3	439.6	433.2	433.7	432.3
30°	426.9	424.6	418.2	418.2	415.1
32.5°	411.4	408.3	403.7	400.5	399.2
35°	394.6	391.9	386.0	383.3	381.0
37.5°	377.9	374.2	368.3	365.2	363.8
40°	360.2	357.5	351.1	347.5	345.7
42.5°	342.5	339.3	333.0	329.3	327.5
45°	323.4	321.6	315.7	310.3	308.0
47.5°	304.8	302.1	296.7	291.2	289.4
50°	285.8	283.5	277.6	272.6	269.9
52.5°	265.8	264.5	258.1	254.0	251.3
55°	245.4	245.0	239.1	234.1	231.8
57.5°	226.4	224.5	220.0	215.5	212.7
60°	205.5	205.0	199.6	195.5	193.2
62.5°	186.9	185.5	180.1	176.0	174.6
65°	167.4	165.1	160.6	157.0	155.6
67.5°	146.5	144.7	141.1	137.9	136.1
70°	127.9	125.2	122.5	119.3	117.0
72.5°	108.4	106.6	103.4	100.7	99.8
75°	88.5	86.6	85.3	83.0	81.7
77.5°	70.8	69.9	68.0	66.2	66.2
80°	53.5	52.2	51.3	50.8	50.8
82.5°	36.7	36.7	36.7	35.8	35.4
85°	23.6	22.7	22.7	21.8	21.8
87.5°	11.8	10.4	10.0	9.5	9.5
90°	1.0	10.9	23.7	27.7	29.6
92.5°	22.7	16.8	25.7	32.6	33.6
95°	60.3	19.8	30.6	37.5	37.5
97.5°	109.7	82.0	31.6	39.5	40.5
100°	167.0	186.7	32.6	40.5	41.5
102.5°	232.2	245.0	73.1	40.5	42.5
105°	294.4	305.3	216.4	41.5	43.5
107.5°	360.6	369.5	384.3	232.2	102.8
110°	426.8	434.7	445.6	413.0	271.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	490.1	497.0	507.9	516.7	514.8
115°	552.3	558.2	567.1	577.0	581.0
117.5°	613.6	620.5	625.4	633.3	634.3
120°	669.9	678.8	681.8	689.7	689.7
122.5°	727.2	734.1	738.1	743.0	744.0
125°	778.6	786.5	790.4	792.4	794.4
127.5°	830.0	837.9	842.8	845.8	843.8
130°	877.4	885.3	889.2	893.2	891.2
132.5°	922.8	930.7	933.7	937.7	934.7
135°	969.3	975.2	979.2	982.1	979.2
137.5°	1008.8	1016.7	1018.7	1023.6	1021.6
140°	1048.3	1054.2	1057.2	1061.2	1059.2
142.5°	1084.9	1090.8	1093.8	1096.7	1093.8
145°	1118.5	1125.4	1127.4	1129.3	1129.3
147.5°	1151.1	1156.0	1158.0	1160.0	1155.0
150°	1180.7	1183.7	1185.7	1187.6	1184.7
152.5°	1207.4	1208.4	1209.4	1213.3	1208.4
155°	1232.1	1230.1	1231.1	1236.0	1230.1
157.5°	1251.9	1251.9	1250.9	1256.8	1248.9
160°	1269.6	1268.7	1267.7	1273.6	1266.7
162.5°	1286.4	1283.5	1282.5	1289.4	1283.5
165°	1299.3	1296.3	1295.3	1303.2	1296.3
167.5°	1310.1	1306.2	1306.2	1314.1	1306.2
170°	1319.0	1315.1	1315.1	1323.0	1315.1
172.5°	1325.0	1320.0	1321.0	1328.9	1320.0
175°	1329.9	1325.0	1326.0	1332.9	1325.0
177.5°	1331.9	1326.9	1327.9	1335.8	1326.0
180°	1329.9	1329.9	1329.9	1329.9	1329.9

(END OF REPORT)