

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: P1011481

Luminaire Tested: S123DIP-B340D1025UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011481
REPORT IS A COMBINATION OF REPORTS P989658 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1025UB35-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

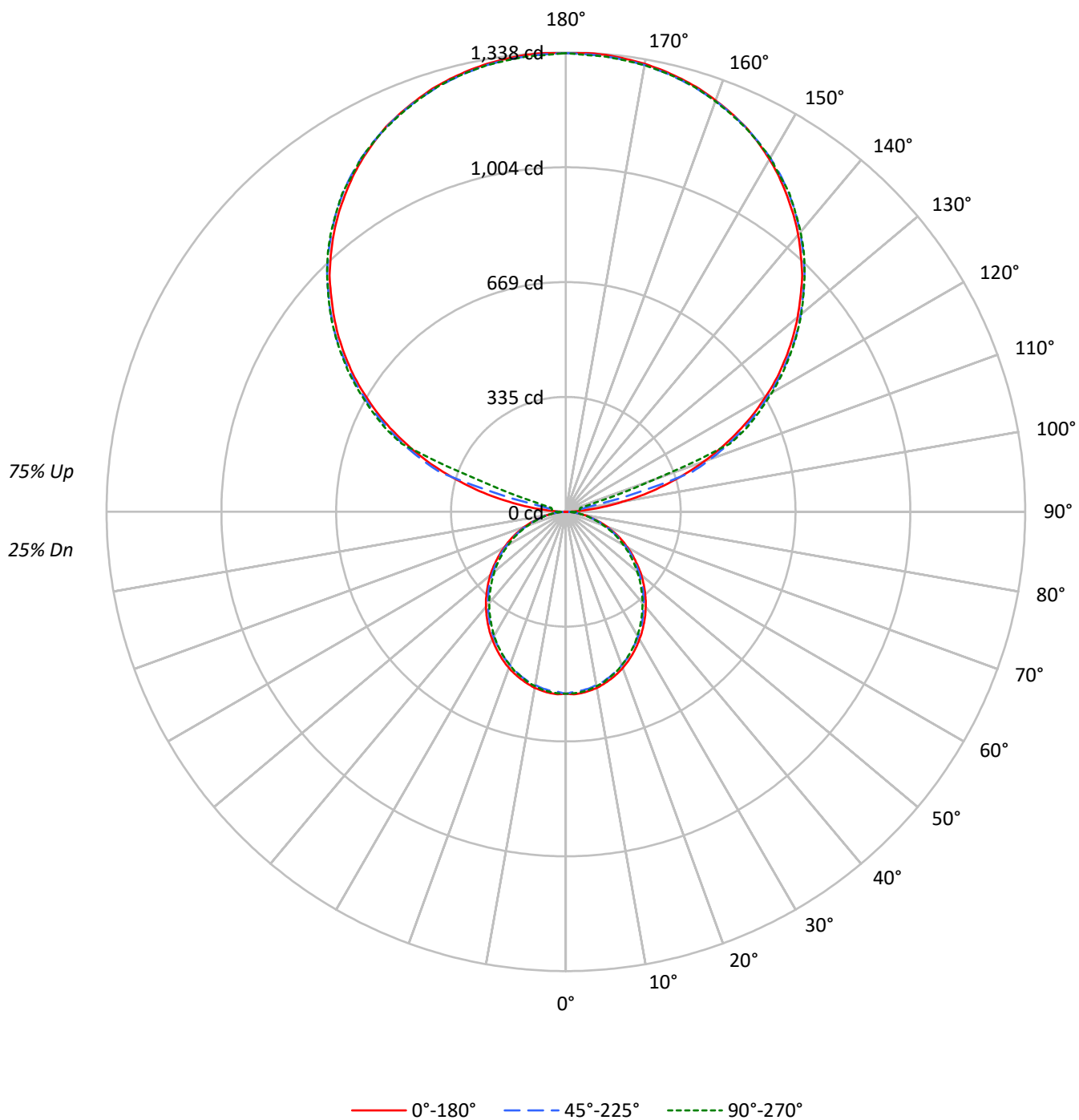
Lumens per Lamp: N/A
Luminaire Lumens: 5454.0 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5704	5704	5704
5°	5717	5506	5499
10°	5667	5321	5265
15°	5588	5127	5012
20°	5497	4911	4761
25°	5380	4684	4492
30°	5253	4449	4210
35°	5119	4209	3928
40°	4978	3957	3653
45°	4824	3712	3364
50°	4667	3438	3074
55°	4466	3153	2780
60°	4259	2839	2468
65°	4064	2498	2143
70°	3784	2120	1762
75°	3378	1680	1368
80°	2921	1180	967
85°	2276	635	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	0.9
10°-20°	141.0	2.6
20°-30°	208.3	3.8
30°-40°	243.3	4.5
40°-50°	244.6	4.5
50°-60°	214.8	3.9
60°-70°	160.0	2.9
70°-80°	91.1	1.7
80°-90°	28.6	0.5
90°-100°	47.1	0.9
100°-110°	227.8	4.2
110°-120°	558.1	10.2
120°-130°	708.5	13.0
130°-140°	756.9	13.9
140°-150°	707.8	13.0
150°-160°	570.9	10.5
160°-170°	368.4	6.8
170°-180°	127.0	2.3
0°-30°	399.3	7.3
0°-40°	642.6	11.8
0°-60°	1102.0	20.2
0°-90°	1381.7	25.3
90°-120°	833.0	15.3
90°-150°	3006.1	55.1
90°-180°	4072.0	74.7
0°-180°	5454.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	530	530	530	530	530	
5°	530	528	523	528	527	50
15°	505	503	497	501	498	142
25°	458	456	450	450	449	211
35°	396	394	388	385	383	248
45°	325	323	317	312	309	251
55°	246	246	240	235	233	221
65°	168	166	161	158	156	166
75°	89	87	86	83	82	95
85°	24	23	23	22	22	25
90°	1	11	24	28	30	5
95°	60	20	31	38	38	72
105°	296	307	217	42	44	314
115°	555	561	570	580	584	548
125°	782	790	794	796	798	699
135°	974	980	984	986	984	750
145°	1123	1130	1132	1134	1134	703
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	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	529.9	529.9	529.9	529.9	529.9
2.5°	532.1	530.3	525.3	529.9	529.4
5°	530.3	528.0	523.0	527.6	526.7
7.5°	526.2	523.9	518.9	523.0	522.6
10°	520.8	518.5	512.6	516.7	515.7
12.5°	513.5	511.6	506.2	508.9	508.5
15°	504.8	503.0	497.1	500.7	498.0
17.5°	495.2	493.0	487.0	489.8	488.9
20°	484.3	481.6	475.6	477.5	476.1
22.5°	472.0	469.3	463.3	464.7	462.9
25°	458.3	455.6	449.7	450.1	448.8
27.5°	444.2	441.5	435.1	435.6	434.2
30°	428.7	426.4	420.1	420.1	416.9
32.5°	413.2	410.0	405.5	402.3	400.9
35°	396.4	393.6	387.7	385.0	382.7
37.5°	379.5	375.9	369.9	366.8	365.4
40°	361.7	359.0	352.6	349.0	347.2
42.5°	344.0	340.8	334.4	330.8	328.9
45°	324.8	323.0	317.1	311.6	309.4
47.5°	306.2	303.4	298.0	292.5	290.7
50°	287.0	284.8	278.8	273.8	271.1
52.5°	267.0	265.6	259.2	255.1	252.4
55°	246.5	246.0	240.1	235.1	232.8
57.5°	227.3	225.5	221.0	216.4	213.7
60°	206.4	205.9	200.5	196.4	194.1
62.5°	187.7	186.3	180.9	176.8	175.4
65°	168.1	165.8	161.3	157.6	156.3
67.5°	147.2	145.3	141.7	138.5	136.7
70°	128.5	125.7	123.0	119.8	117.5
72.5°	108.9	107.1	103.9	101.1	100.2
75°	88.8	87.0	85.7	83.4	82.0
77.5°	71.1	70.2	68.3	66.5	66.5
80°	53.8	52.4	51.5	51.0	51.0
82.5°	36.9	36.9	36.9	36.0	35.5
85°	23.7	22.8	22.8	21.9	21.9
87.5°	11.8	10.5	10.0	9.6	9.6
90°	1.0	10.9	23.8	27.8	29.8
92.5°	22.8	16.9	25.8	32.8	33.7
95°	60.5	19.8	30.8	37.7	37.7
97.5°	110.2	82.4	31.8	39.7	40.7
100°	167.7	187.6	32.8	40.7	41.7
102.5°	233.2	246.1	73.4	40.7	42.7
105°	295.7	306.7	217.3	41.7	43.7
107.5°	362.2	371.2	386.1	233.2	103.2
110°	428.7	436.7	447.6	414.8	272.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	492.2	499.2	510.1	519.0	517.1
115°	554.8	560.7	569.7	579.6	583.5
117.5°	616.3	623.2	628.2	636.1	637.1
120°	672.9	681.8	684.8	692.7	692.7
122.5°	730.4	737.4	741.3	746.3	747.3
125°	782.0	790.0	793.9	795.9	797.9
127.5°	833.6	841.6	846.5	849.5	847.5
130°	881.3	889.2	893.2	897.2	895.2
132.5°	926.9	934.9	937.8	941.8	938.8
135°	973.6	979.5	983.5	986.5	983.5
137.5°	1013.3	1021.2	1023.2	1028.2	1026.2
140°	1053.0	1058.9	1061.9	1065.9	1063.9
142.5°	1089.7	1095.6	1098.6	1101.6	1098.6
145°	1123.4	1130.4	1132.4	1134.3	1134.3
147.5°	1156.2	1161.1	1163.1	1165.1	1160.2
150°	1186.0	1188.9	1190.9	1192.9	1189.9
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)