

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: P1011490

Luminaire Tested: S123DIP-B340D1025UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011490
REPORT IS A COMBINATION OF REPORTS P989667 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1025UB40-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

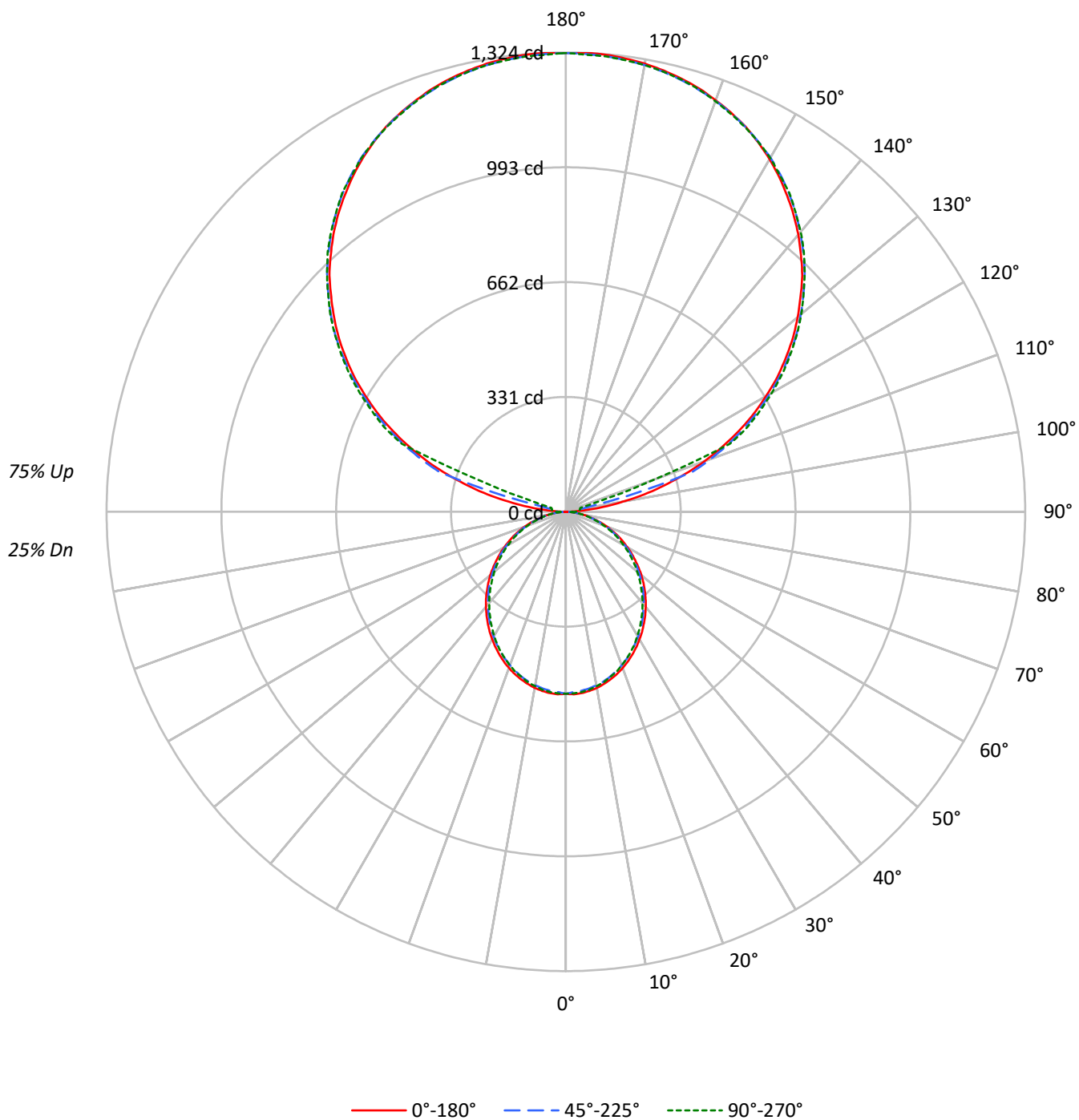
Lumens per Lamp: N/A
Luminaire Lumens: 5399.0 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	5646	5646	5646
5°	5659	5450	5442
10°	5610	5266	5212
15°	5531	5074	4961
20°	5442	4861	4713
25°	5326	4637	4446
30°	5200	4404	4166
35°	5066	4167	3888
40°	4928	3917	3615
45°	4775	3674	3329
50°	4620	3403	3043
55°	4421	3121	2752
60°	4216	2809	2443
65°	4022	2472	2121
70°	3746	2100	1745
75°	3344	1662	1355
80°	2888	1169	958
85°	2257	627	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4775 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	0.9
10°-20°	139.6	2.6
20°-30°	206.2	3.8
30°-40°	240.8	4.5
40°-50°	242.1	4.5
50°-60°	212.7	3.9
60°-70°	158.4	2.9
70°-80°	90.1	1.7
80°-90°	28.3	0.5
90°-100°	46.6	0.9
100°-110°	225.5	4.2
110°-120°	552.5	10.2
120°-130°	701.4	13.0
130°-140°	749.3	13.9
140°-150°	700.6	13.0
150°-160°	565.1	10.5
160°-170°	364.7	6.8
170°-180°	125.7	2.3
0°-30°	395.3	7.3
0°-40°	636.1	11.8
0°-60°	1090.8	20.2
0°-90°	1367.6	25.3
90°-120°	824.6	15.3
90°-150°	2975.8	55.1
90°-180°	4031.0	74.7
0°-180°	5399.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	525	523	518	522	521	50
15°	500	498	492	496	493	141
25°	454	451	445	446	444	209
35°	392	390	384	381	379	245
45°	322	320	314	308	306	248
55°	244	244	238	233	230	219
65°	166	164	160	156	155	164
75°	88	86	85	82	81	94
85°	24	22	22	22	22	25
90°	1	11	24	28	30	5
95°	60	20	30	37	37	72
105°	293	304	215	41	43	310
115°	549	555	564	574	578	542
125°	774	782	786	788	790	692
135°	964	970	974	977	974	742
145°	1112	1119	1121	1123	1123	696
155°	1225	1223	1224	1229	1223	564
165°	1292	1289	1288	1296	1289	365
175°	1322	1318	1318	1325	1318	126
180°	1322	1322	1322	1322	1322	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	524.5	524.5	524.5	524.5	524.5
2.5°	526.7	524.9	520.0	524.5	524.0
5°	524.9	522.7	517.7	522.2	521.3
7.5°	520.9	518.6	513.7	517.7	517.3
10°	515.5	513.2	507.3	511.4	510.5
12.5°	508.2	506.4	501.0	503.7	503.3
15°	499.7	497.9	492.0	495.6	492.9
17.5°	490.2	488.0	482.1	484.8	483.9
20°	479.4	476.7	470.8	472.6	471.3
22.5°	467.2	464.5	458.6	460.0	458.2
25°	453.7	451.0	445.1	445.6	444.2
27.5°	439.7	437.0	430.7	431.1	429.8
30°	424.4	422.1	415.8	415.8	412.6
32.5°	409.0	405.9	401.4	398.2	396.9
35°	392.3	389.6	383.8	381.1	378.8
37.5°	375.7	372.1	366.2	363.0	361.7
40°	358.1	355.4	349.1	345.4	343.6
42.5°	340.5	337.3	331.0	327.4	325.6
45°	321.5	319.7	313.9	308.5	306.2
47.5°	303.1	300.3	294.9	289.5	287.7
50°	284.1	281.9	276.0	271.0	268.3
52.5°	264.3	262.9	256.6	252.5	249.8
55°	244.0	243.5	237.7	232.7	230.4
57.5°	225.0	223.2	218.7	214.2	211.5
60°	204.3	203.8	198.4	194.4	192.1
62.5°	185.8	184.4	179.0	175.0	173.6
65°	166.4	164.2	159.6	156.0	154.7
67.5°	145.7	143.9	140.3	137.1	135.3
70°	127.2	124.5	121.8	118.6	116.4
72.5°	107.8	106.0	102.8	100.1	99.2
75°	87.9	86.1	84.8	82.5	81.2
77.5°	70.4	69.5	67.6	65.8	65.8
80°	53.2	51.9	51.0	50.5	50.5
82.5°	36.5	36.5	36.5	35.6	35.2
85°	23.5	22.5	22.5	21.6	21.6
87.5°	11.7	10.4	9.9	9.5	9.5
90°	1.0	10.8	23.6	27.5	29.5
92.5°	22.6	16.7	25.5	32.4	33.4
95°	59.9	19.6	30.5	37.3	37.3
97.5°	109.1	81.5	31.4	39.3	40.3
100°	166.0	185.7	32.4	40.3	41.3
102.5°	230.9	243.6	72.7	40.3	42.2
105°	292.8	303.6	215.2	41.3	43.2
107.5°	358.6	367.4	382.2	230.9	102.2
110°	424.4	432.3	443.1	410.7	270.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	487.3	494.2	505.0	513.8	511.9
115°	549.2	555.1	563.9	573.7	577.7
117.5°	610.1	617.0	621.9	629.7	630.7
120°	666.1	674.9	677.9	685.7	685.7
122.5°	723.1	730.0	733.9	738.8	739.8
125°	774.2	782.0	786.0	787.9	789.9
127.5°	825.3	833.1	838.0	841.0	839.0
130°	872.4	880.3	884.2	888.1	886.2
132.5°	917.6	925.5	928.4	932.3	929.4
135°	963.8	969.7	973.6	976.6	973.6
137.5°	1003.1	1010.9	1012.9	1017.8	1015.8
140°	1042.4	1048.3	1051.2	1055.1	1053.2
142.5°	1078.7	1084.6	1087.6	1090.5	1087.6
145°	1112.1	1119.0	1121.0	1122.9	1122.9
147.5°	1144.5	1149.5	1151.4	1153.4	1148.5
150°	1174.0	1177.0	1178.9	1180.9	1178.0
152.5°	1200.5	1201.5	1202.5	1206.4	1201.5
155°	1225.1	1223.1	1224.1	1229.0	1223.1
157.5°	1244.8	1244.8	1243.8	1249.7	1241.8
160°	1262.4	1261.5	1260.5	1266.4	1259.5
162.5°	1279.1	1276.2	1275.2	1282.1	1276.2
165°	1291.9	1289.0	1288.0	1295.8	1289.0
167.5°	1302.7	1298.8	1298.8	1306.7	1298.8
170°	1311.6	1307.6	1307.6	1315.5	1307.6
172.5°	1317.5	1312.5	1313.5	1321.4	1312.5
175°	1322.4	1317.5	1318.4	1325.3	1317.5
177.5°	1324.3	1319.4	1320.4	1328.3	1318.4
180°	1322.4	1322.4	1322.4	1322.4	1322.4

(END OF REPORT)