

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: P1011463

Luminaire Tested: S123DIP-B340D1025UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011463
REPORT IS A COMBINATION OF REPORTS P989625 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B340D1025UB27-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

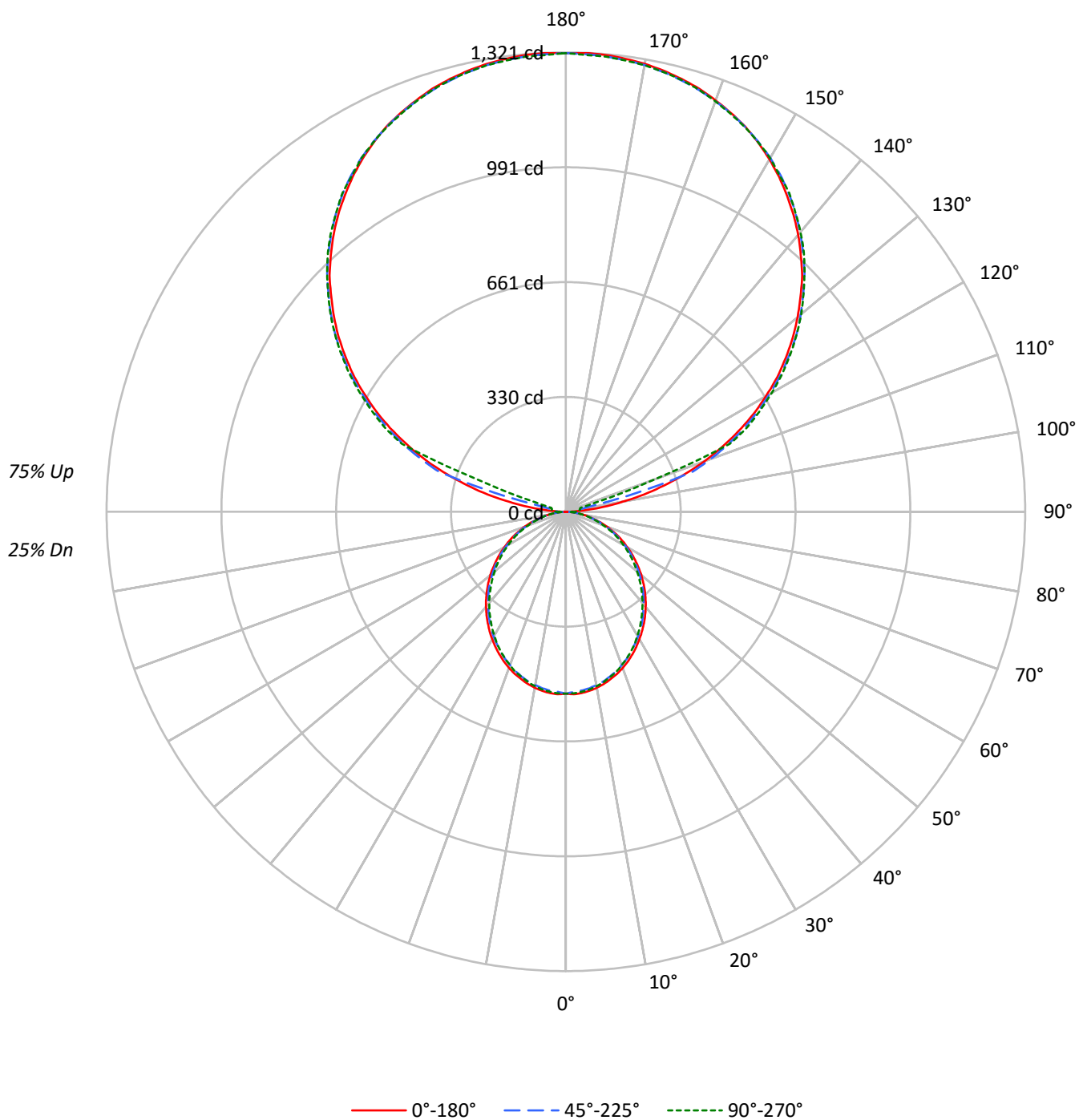
Lumens per Lamp: N/A
Luminaire Lumens: 5384.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	5628	5628	5628
5°	5643	5435	5427
10°	5593	5251	5197
15°	5515	5060	4947
20°	5426	4847	4699
25°	5311	4623	4433
30°	5184	4391	4154
35°	5052	4155	3877
40°	4913	3905	3604
45°	4761	3664	3320
50°	4607	3393	3033
55°	4408	3112	2745
60°	4203	2800	2437
65°	4010	2466	2114
70°	3734	2093	1739
75°	3336	1656	1350
80°	2883	1164	956
85°	2248	627	479

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4761 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	0.9
10°-20°	139.2	2.6
20°-30°	205.6	3.8
30°-40°	240.1	4.5
40°-50°	241.4	4.5
50°-60°	212.1	3.9
60°-70°	157.9	2.9
70°-80°	89.9	1.7
80°-90°	28.2	0.5
90°-100°	46.5	0.9
100°-110°	224.8	4.2
110°-120°	551.0	10.2
120°-130°	699.5	13.0
130°-140°	747.2	13.9
140°-150°	698.7	13.0
150°-160°	563.6	10.5
160°-170°	363.7	6.8
170°-180°	125.3	2.3
0°-30°	394.1	7.3
0°-40°	634.2	11.8
0°-60°	1087.7	20.2
0°-90°	1363.6	25.3
90°-120°	822.3	15.3
90°-150°	2967.7	55.1
90°-180°	4020.0	74.7
0°-180°	5384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	523	523	523	523	523	
5°	523	521	516	521	520	50
15°	498	496	491	494	492	140
25°	452	450	444	444	443	208
35°	391	388	383	380	378	245
45°	321	319	313	308	305	248
55°	243	243	237	232	230	218
65°	166	164	159	156	154	164
75°	88	86	84	82	81	94
85°	23	22	22	22	22	25
90°	1	11	24	27	29	5
95°	60	20	30	37	37	71
105°	292	303	215	41	43	310
115°	548	554	562	572	576	541
125°	772	780	784	786	788	690
135°	961	967	971	974	971	740
145°	1109	1116	1118	1120	1120	694
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°	522.9	522.9	522.9	522.9	522.9
2.5°	525.2	523.4	518.5	522.9	522.5
5°	523.4	521.1	516.2	520.7	519.8
7.5°	519.4	517.1	512.2	516.2	515.8
10°	514.0	511.7	505.9	509.9	509.0
12.5°	506.8	505.0	499.6	502.3	501.8
15°	498.2	496.4	490.6	494.2	491.5
17.5°	488.8	486.5	480.7	483.4	482.5
20°	478.0	475.3	469.4	471.2	469.9
22.5°	465.8	463.1	457.3	458.6	456.8
25°	452.4	449.7	443.8	444.3	442.9
27.5°	438.4	435.7	429.4	429.9	428.5
30°	423.1	420.9	414.6	414.6	411.4
32.5°	407.8	404.7	400.2	397.0	395.7
35°	391.2	388.5	382.7	380.0	377.7
37.5°	374.6	371.0	365.1	362.0	360.6
40°	357.0	354.3	348.0	344.4	342.6
42.5°	339.5	336.3	330.0	326.4	324.6
45°	320.6	318.8	313.0	307.6	305.3
47.5°	302.2	299.5	294.1	288.7	286.9
50°	283.3	281.0	275.2	270.2	267.5
52.5°	263.5	262.1	255.9	251.8	249.1
55°	243.3	242.8	237.0	232.0	229.8
57.5°	224.4	222.6	218.1	213.6	210.9
60°	203.7	203.2	197.8	193.8	191.6
62.5°	185.3	183.9	178.5	174.5	173.1
65°	165.9	163.7	159.2	155.6	154.2
67.5°	145.2	143.4	139.8	136.7	134.9
70°	126.8	124.1	121.4	118.3	116.0
72.5°	107.5	105.7	102.5	99.8	98.9
75°	87.7	85.9	84.5	82.3	80.9
77.5°	70.1	69.2	67.4	65.6	65.6
80°	53.1	51.7	50.8	50.4	50.4
82.5°	36.4	36.4	36.4	35.5	35.1
85°	23.4	22.5	22.5	21.6	21.6
87.5°	11.7	10.3	9.9	9.4	9.4
90°	1.0	10.8	23.5	27.4	29.4
92.5°	22.5	16.7	25.5	32.3	33.3
95°	59.8	19.6	30.4	37.2	37.2
97.5°	108.8	81.3	31.4	39.2	40.2
100°	165.6	185.2	32.3	40.2	41.2
102.5°	230.2	243.0	72.5	40.2	42.1
105°	292.0	302.7	214.6	41.2	43.1
107.5°	357.6	366.4	381.1	230.2	101.9
110°	423.3	431.1	441.9	409.5	269.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	486.0	492.8	503.6	512.4	510.5
115°	547.7	553.6	562.4	572.2	576.1
117.5°	608.4	615.3	620.2	628.0	629.0
120°	664.3	673.1	676.0	683.9	683.9
122.5°	721.1	728.0	731.9	736.8	737.8
125°	772.1	779.9	783.8	785.8	787.7
127.5°	823.0	830.8	835.7	838.7	836.7
130°	870.0	877.9	881.8	885.7	883.7
132.5°	915.1	922.9	925.9	929.8	926.9
135°	961.2	967.0	970.9	973.9	970.9
137.5°	1000.3	1008.2	1010.1	1015.0	1013.1
140°	1039.5	1045.4	1048.3	1052.3	1050.3
142.5°	1075.8	1081.7	1084.6	1087.5	1084.6
145°	1109.1	1116.0	1117.9	1119.9	1119.9
147.5°	1141.4	1146.3	1148.3	1150.2	1145.3
150°	1170.8	1173.8	1175.7	1177.7	1174.7
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)