

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: P1011121

Luminaire Tested: S123DIP-B1000D365UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011121
REPORT IS A COMBINATION OF REPORTS P989166 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D365UB30-4F0-XX-W2A-D
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

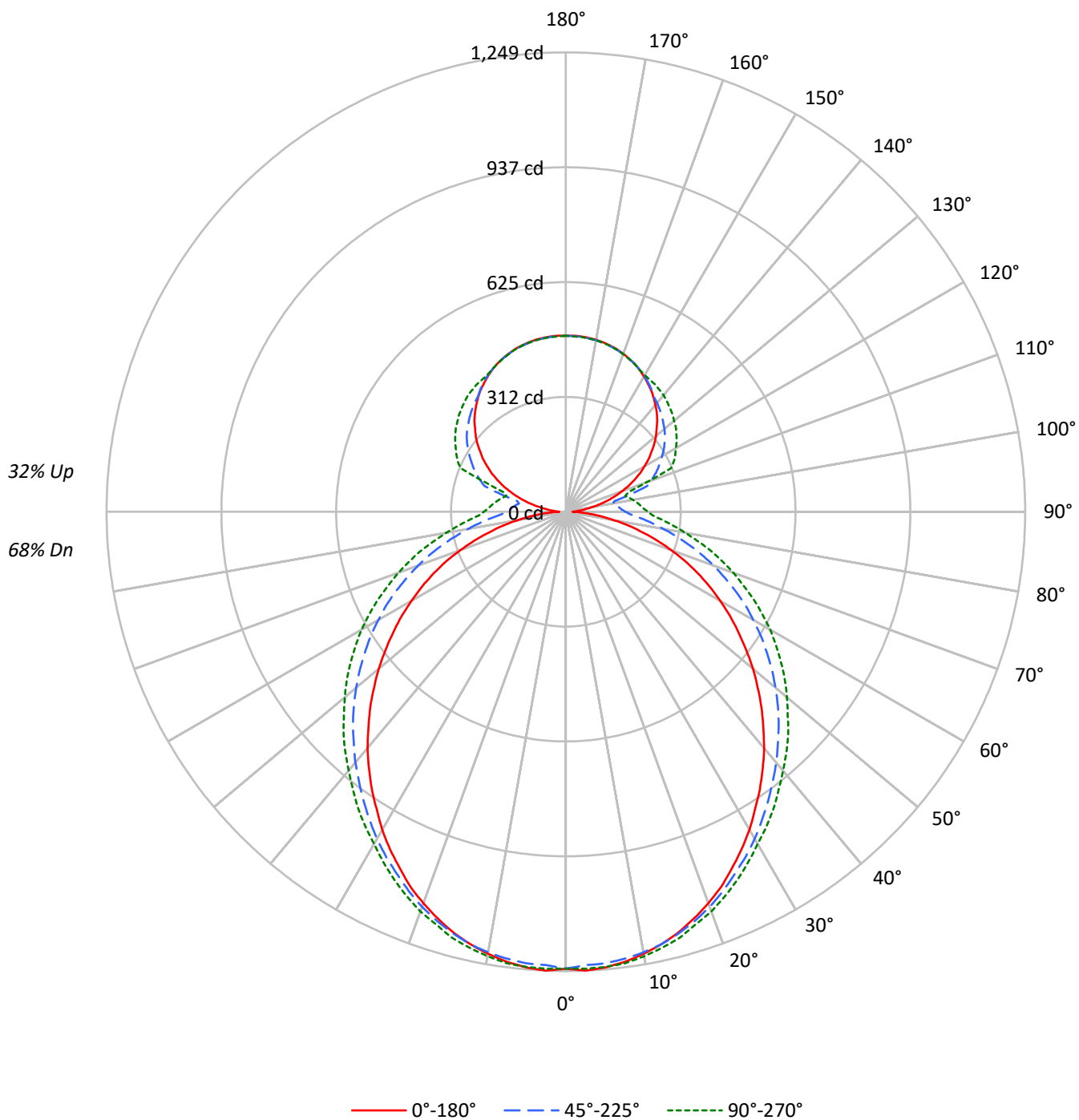
Lumens per Lamp: N/A
Luminaire Lumens: 5634.1 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	73	73	73
1	100	95	91	87	94	90	86	82	80	77	74	70	68	66	62	60	58
2	91	82	76	70	85	78	72	66	69	64	60	61	57	54	54	51	48
3	83	72	64	57	77	68	61	55	61	55	50	54	49	45	47	44	40
4	75	64	55	48	71	60	52	46	54	47	42	48	42	38	42	38	34
5	69	57	48	41	65	54	46	40	48	41	36	43	37	33	38	33	30
6	64	51	42	36	60	48	40	34	43	36	32	38	33	29	34	30	26
7	59	46	37	31	55	43	36	30	39	33	28	35	29	25	31	27	23
8	55	42	33	28	51	40	32	27	36	29	25	32	27	23	28	24	21
9	51	38	30	25	48	36	29	24	33	26	22	29	24	20	26	22	19
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13369	13369	13369
5°	13405	12976	12966
10°	13279	12625	12529
15°	13104	12237	12065
20°	12854	11804	11566
25°	12548	11317	11051
30°	12233	10876	10532
35°	11881	10413	10110
40°	11544	9989	9664
45°	11171	9580	9297
50°	10802	9175	8898
55°	10393	8758	8531
60°	9993	8332	8156
65°	9582	7879	7716
70°	8964	7369	7261
75°	8182	6788	6793
80°	7269	6203	6260
85°	6368	5725	5878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	2.1
10°-20°	335.9	6.0
20°-30°	502.3	8.9
30°-40°	599.7	10.6
40°-50°	627.4	11.1
50°-60°	588.8	10.5
60°-70°	491.8	8.7
70°-80°	351.7	6.2
80°-90°	210.2	3.7
90°-100°	148.3	2.6
100°-110°	178.3	3.2
110°-120°	264.5	4.7
120°-130°	290.7	5.2
130°-140°	287.7	5.1
140°-150°	257.0	4.6
150°-160°	204.6	3.6
160°-170°	132.0	2.3
170°-180°	45.5	0.8
0°-30°	955.9	17.0
0°-40°	1555.6	27.6
0°-60°	2771.8	49.2
0°-90°	3825.5	67.9
90°-120°	591.1	10.5
90°-150°	1426.5	25.3
90°-180°	1809.0	32.1
0°-180°	5634.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1242	1242	1242	1242	1242	
5°	1243	1241	1232	1243	1242	118
15°	1184	1188	1186	1200	1199	333
25°	1069	1082	1086	1104	1104	493
35°	920	942	959	980	985	575
45°	752	785	818	844	855	580
55°	574	618	667	704	714	514
65°	396	449	509	549	563	392
75°	215	279	346	391	407	230
85°	66	134	206	252	265	68
90°	18	88	161	209	223	14
95°	37	75	145	189	203	38
105°	117	153	179	154	167	123
115°	206	224	276	312	324	203
125°	284	287	328	357	367	254
135°	352	352	369	394	400	271
145°	404	405	406	417	423	253
155°	443	443	443	445	443	204
165°	468	466	466	469	466	132
175°	479	477	477	480	477	46
180°	479	479	479	479	479	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1242.0	1242.0	1242.0	1242.0	1242.0
2.5°	1248.7	1244.7	1233.9	1244.7	1243.3
5°	1243.3	1240.6	1232.5	1243.3	1242.0
7.5°	1233.9	1233.9	1225.7	1239.3	1237.9
10°	1220.3	1223.0	1216.3	1229.8	1227.1
12.5°	1204.1	1208.1	1204.1	1216.3	1213.6
15°	1183.8	1187.9	1186.5	1200.0	1198.7
17.5°	1159.4	1167.6	1166.2	1178.4	1175.7
20°	1132.4	1140.5	1143.2	1155.4	1156.7
22.5°	1104.0	1112.1	1116.2	1132.4	1131.0
25°	1068.8	1082.3	1086.4	1104.0	1104.0
27.5°	1035.0	1049.9	1058.0	1072.9	1074.2
30°	998.4	1016.0	1026.9	1043.1	1043.1
32.5°	957.9	978.2	993.0	1010.6	1014.7
35°	920.0	941.6	959.2	979.5	984.9
37.5°	879.4	903.7	924.0	947.0	951.1
40°	838.8	863.2	890.2	913.2	918.6
42.5°	794.2	825.3	853.7	879.4	887.5
45°	752.2	784.7	818.5	844.2	855.0
47.5°	707.6	744.1	782.0	810.4	818.5
50°	664.3	702.2	744.1	775.2	784.7
52.5°	618.3	658.9	706.2	738.7	750.9
55°	573.6	618.3	667.0	703.5	714.3
57.5°	530.3	576.3	629.1	665.6	677.8
60°	484.3	533.0	588.5	626.4	641.3
62.5°	441.0	491.1	550.6	588.5	602.0
65°	396.4	449.2	508.7	549.3	562.8
67.5°	351.8	407.2	466.8	511.4	522.2
70°	304.4	362.6	427.5	470.8	484.3
72.5°	261.1	319.3	386.9	431.6	445.1
75°	215.1	278.7	346.3	391.0	407.2
77.5°	175.9	239.5	307.1	354.5	366.6
80°	133.9	200.2	270.6	316.6	330.1
82.5°	97.4	165.1	236.8	282.8	296.3
85°	66.3	133.9	205.6	251.6	265.2
87.5°	40.6	108.2	177.2	223.2	236.8
90°	18.0	87.8	161.4	208.9	223.1
92.5°	24.4	80.4	151.3	198.4	211.0
95°	36.6	74.7	144.9	189.4	202.9
97.5°	53.0	91.7	137.2	180.6	194.5
100°	72.3	122.7	129.4	171.5	185.4
102.5°	94.4	136.9	135.9	162.1	176.3
105°	116.8	153.2	179.4	154.2	167.1
107.5°	139.3	170.9	231.7	213.5	179.1
110°	161.7	189.0	247.0	270.4	230.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	184.5	206.0	261.3	298.3	309.8
115°	205.6	223.9	275.8	311.9	324.1
117.5°	227.6	240.9	288.7	324.0	335.2
120°	246.5	256.5	302.1	336.1	345.6
122.5°	267.1	272.3	315.7	347.2	357.0
125°	284.3	287.1	327.8	356.9	367.1
127.5°	302.8	304.2	339.8	368.0	376.8
130°	319.8	321.3	349.8	376.9	384.3
132.5°	334.8	337.6	359.0	384.8	393.2
135°	351.5	352.3	368.6	394.0	399.8
137.5°	365.7	367.3	377.4	400.9	406.9
140°	378.7	380.8	385.9	407.6	413.7
142.5°	391.8	392.5	393.6	412.3	418.0
145°	403.9	405.0	405.7	417.2	422.6
147.5°	414.2	416.0	416.7	421.5	425.2
150°	424.9	426.0	426.7	427.4	429.0
152.5°	434.5	434.9	435.2	436.6	434.9
155°	443.4	442.7	443.0	444.8	442.7
157.5°	450.5	450.5	450.2	452.3	449.4
160°	456.9	456.6	456.2	458.3	455.8
162.5°	463.0	461.9	461.5	464.0	461.9
165°	467.6	466.5	466.2	469.0	466.5
167.5°	471.5	470.1	470.1	472.9	470.1
170°	474.7	473.3	473.3	476.1	473.3
172.5°	476.8	475.0	475.4	478.2	475.0
175°	478.6	476.8	477.2	479.7	476.8
177.5°	479.3	477.5	477.9	480.7	477.2
180°	478.6	478.6	478.6	478.6	478.6

(END OF REPORT)