

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: P1011123

Luminaire Tested: S123DIP-B1000D365UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011123
REPORT IS A COMBINATION OF REPORTS P989168 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-D4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

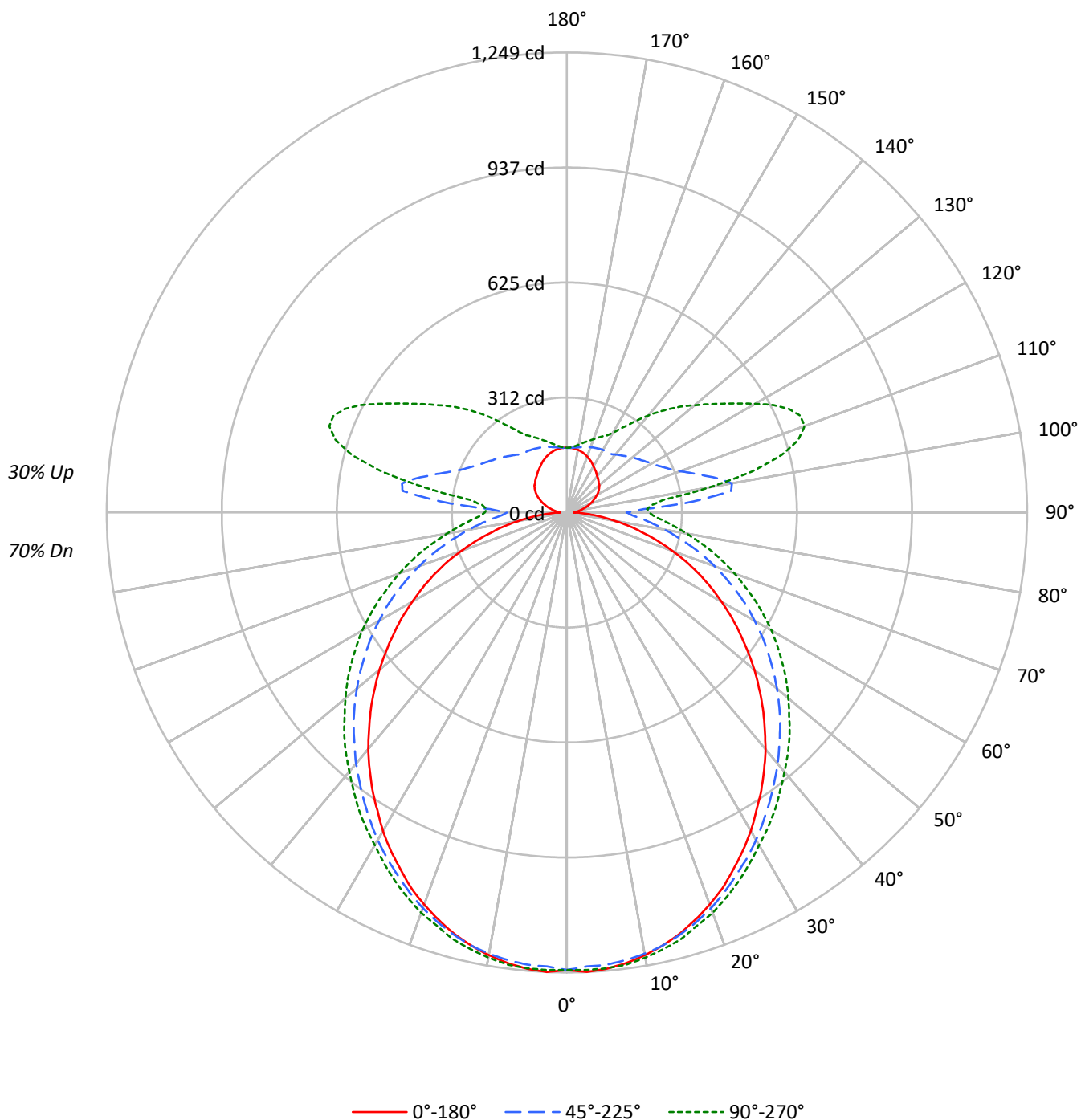
Lumens per Lamp: N/A
Luminaire Lumens: 5499.1 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	101	96	91	87	95	90	86	83	81	77	75	72	69	67	63	61	60
2	91	83	76	70	86	78	72	67	70	65	61	62	58	55	55	52	49
3	83	72	64	58	78	68	61	55	61	55	50	54	50	46	48	44	41
4	76	64	55	48	71	60	53	46	54	48	43	48	43	39	43	39	35
5	69	57	48	41	65	54	46	40	48	42	37	43	38	33	38	34	30
6	64	51	42	36	60	48	40	35	44	37	32	39	33	29	35	30	27
7	59	46	37	31	56	44	36	30	39	33	28	35	30	26	32	27	24
8	55	42	34	28	52	40	32	27	36	30	25	32	27	23	29	25	21
9	51	38	30	25	48	36	29	24	33	27	22	30	25	21	27	22	19
10	48	35	27	22	45	34	26	22	30	24	20	28	22	19	25	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	6.1
20°-30°	502.3	9.1
30°-40°	599.7	10.9
40°-50°	627.4	11.4
50°-60°	588.8	10.7
60°-70°	491.8	8.9
70°-80°	351.7	6.4
80°-90°	210.2	3.8
90°-100°	231.3	4.2
100°-110°	375.6	6.8
110°-120°	336.5	6.1
120°-130°	253.4	4.6
130°-140°	187.5	3.4
140°-150°	131.0	2.4
150°-160°	89.0	1.6
160°-170°	52.3	1.0
170°-180°	17.0	0.3
0°-30°	955.9	17.4
0°-40°	1555.6	28.3
0°-60°	2771.8	50.4
0°-90°	3825.5	69.6
90°-120°	943.4	17.2
90°-150°	1515.3	27.6
90°-180°	1674.0	30.4
0°-180°	5499.1	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	162	209	223	14
95°	27	107	345	237	231	24
105°	52	104	387	639	604	55
115°	80	114	290	584	665	79
125°	105	124	247	441	515	94
135°	121	143	217	345	399	94
145°	137	155	199	261	291	85
155°	154	166	192	219	228	71
165°	168	173	184	195	199	47
175°	175	175	177	179	179	17
180°	176	176	176	176	176	

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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°	18.3	88.2	161.8	208.8	222.7
92.5°	21.5	95.7	208.2	209.2	217.7
95°	27.0	106.9	344.7	237.4	230.6
97.5°	32.7	107.2	450.0	321.0	264.5
100°	38.5	105.1	454.4	480.4	393.4
102.5°	44.6	103.6	423.2	580.7	514.0
105°	52.0	104.3	387.3	639.2	603.7
107.5°	58.6	106.0	354.7	659.1	659.0
110°	65.7	107.8	327.6	651.8	686.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	73.5	110.1	306.0	622.3	685.8
115°	79.7	113.8	290.3	583.6	665.0
117.5°	87.1	115.9	276.2	542.8	632.0
120°	93.6	118.0	265.5	503.6	589.8
122.5°	100.3	121.0	256.3	471.3	551.1
125°	105.4	123.7	247.4	441.4	514.9
127.5°	110.4	128.7	239.5	415.6	482.6
130°	115.0	134.4	231.7	391.1	453.2
132.5°	117.2	139.5	224.6	367.7	426.9
135°	121.4	143.1	217.4	345.1	399.0
137.5°	125.3	147.0	211.3	322.0	371.2
140°	128.0	150.5	205.5	300.7	343.9
142.5°	132.2	152.3	199.4	279.3	316.6
145°	136.8	155.2	198.7	260.6	291.0
147.5°	140.1	158.2	197.7	244.6	269.4
150°	144.7	160.7	196.2	232.3	249.8
152.5°	149.3	163.4	194.5	225.2	236.4
155°	153.9	166.0	192.3	218.6	227.9
157.5°	157.5	168.4	190.6	212.2	219.7
160°	161.8	170.3	188.4	206.4	211.9
162.5°	165.0	171.7	186.3	200.9	204.8
165°	168.2	173.0	184.2	195.4	198.7
167.5°	170.6	174.0	182.0	190.6	192.7
170°	172.8	174.6	179.9	186.2	187.4
172.5°	174.2	175.1	178.1	182.6	182.4
175°	175.3	175.4	176.7	179.2	178.8
177.5°	176.0	175.6	175.6	177.0	176.3
180°	175.6	175.6	175.6	175.6	175.6

(END OF REPORT)