

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: P1011122

Luminaire Tested: S123DIP-B1000D365UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011122
REPORT IS A COMBINATION OF REPORTS P989167 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-D1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

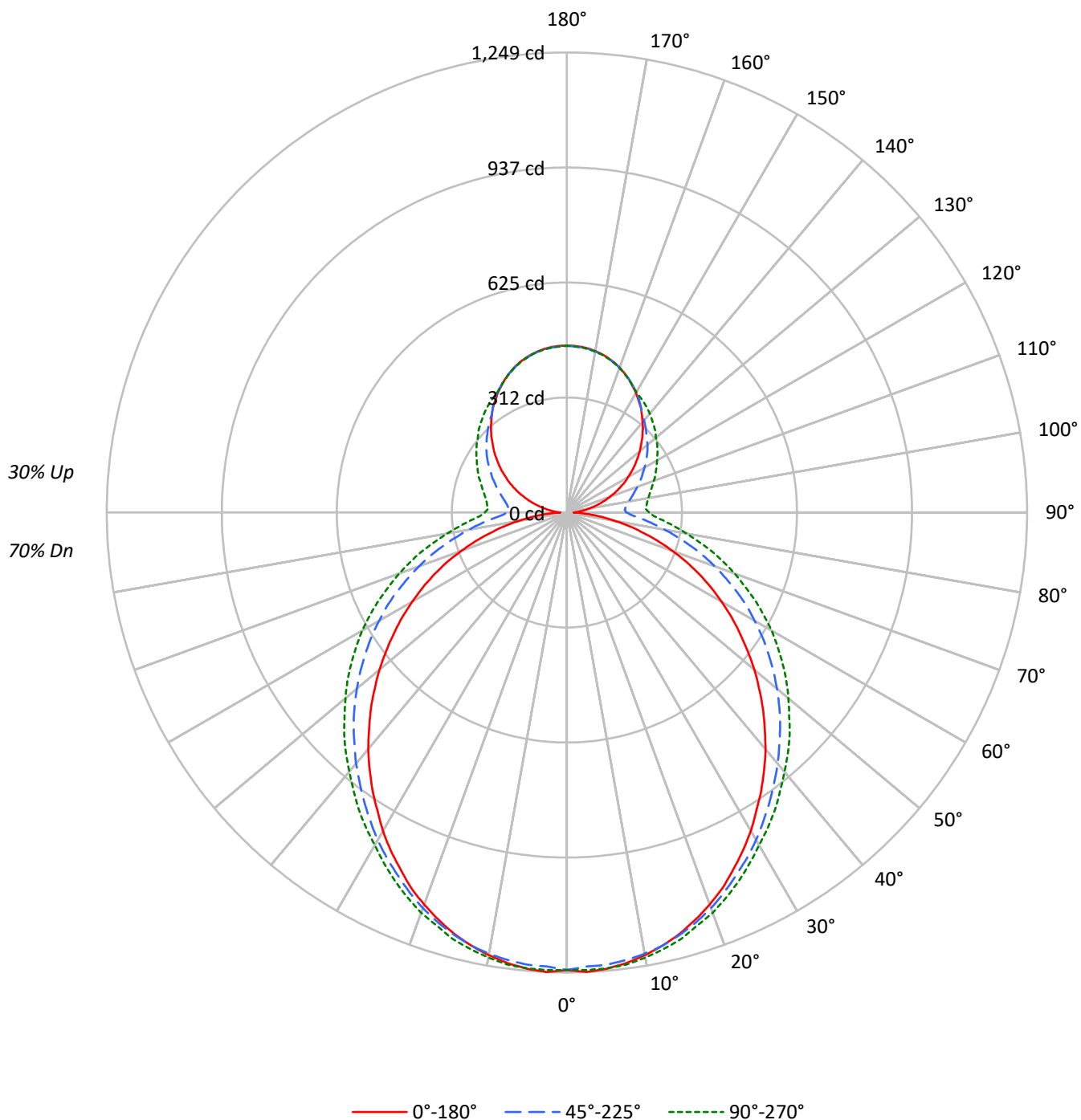
Lumens per Lamp: N/A
Luminaire Lumens: 5429.1 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	95	95	95	84	84	84	75	75	75
1	101	96	91	87	95	91	87	83	81	78	75	72	70	67	64	62	60
2	91	83	76	70	86	78	72	67	70	65	61	62	59	55	55	52	50
3	83	72	64	58	78	69	61	55	61	55	51	55	50	46	49	45	42
4	76	64	55	49	71	61	53	47	54	48	43	49	43	39	43	39	36
5	70	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31
6	64	51	42	36	60	48	40	35	44	37	32	39	34	29	35	31	27
7	59	46	38	32	56	44	36	30	40	33	28	36	30	26	32	27	24
8	55	42	34	28	52	40	32	27	36	30	25	33	27	23	29	25	21
9	51	38	30	25	48	37	29	24	33	27	22	30	25	21	27	23	19
10	48	35	28	22	45	34	26	22	31	25	20	28	23	19	25	21	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	2.2
10°-20°	335.9	6.2
20°-30°	502.3	9.3
30°-40°	599.7	11.0
40°-50°	627.4	11.6
50°-60°	588.8	10.8
60°-70°	491.8	9.1
70°-80°	351.7	6.5
80°-90°	210.2	3.9
90°-100°	160.6	3.0
100°-110°	184.8	3.4
110°-120°	214.7	4.0
120°-130°	234.3	4.3
130°-140°	238.5	4.4
140°-150°	221.7	4.1
150°-160°	183.8	3.4
160°-170°	122.3	2.3
170°-180°	42.8	0.8
0°-30°	955.9	17.6
0°-40°	1555.6	28.7
0°-60°	2771.8	51.1
0°-90°	3825.5	70.5
90°-120°	560.1	10.3
90°-150°	1254.7	23.1
90°-180°	1604.0	29.5
0°-180°	5429.1	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°	36	91	160	204	217	35
105°	91	124	185	223	236	97
115°	158	175	223	256	266	157
125°	225	226	265	292	300	201
135°	290	290	305	328	334	223
145°	350	349	350	360	364	218
155°	398	398	399	400	398	183
165°	434	433	433	435	433	122
175°	452	450	450	452	450	43
180°	453	453	453	453	453	



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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°	26.9	87.2	157.0	202.7	214.2
95°	35.9	91.1	160.2	203.6	217.1
97.5°	48.0	98.5	164.2	206.6	219.7
100°	60.6	106.0	170.0	210.2	224.5
102.5°	75.2	114.1	177.5	216.5	229.6
105°	90.8	124.0	185.4	223.2	236.1
107.5°	108.0	136.7	193.7	231.2	243.1
110°	123.6	148.8	203.6	240.2	250.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.4	160.8	212.2	247.8	260.0
115°	157.9	175.2	223.2	256.0	266.5
117.5°	176.0	187.2	232.5	265.0	274.7
120°	191.3	200.3	243.1	273.8	282.6
122.5°	208.8	212.9	254.2	282.8	291.2
125°	225.2	226.3	264.8	291.8	299.9
127.5°	241.6	242.3	275.4	300.4	308.5
130°	257.9	259.4	285.4	309.7	315.3
132.5°	272.9	275.7	295.3	318.0	325.6
135°	289.6	290.4	304.9	327.9	334.0
137.5°	304.9	305.4	315.8	335.8	341.4
140°	319.6	321.4	325.7	345.7	350.0
142.5°	334.2	334.6	335.3	352.5	357.5
145°	349.5	348.8	349.8	360.3	364.3
147.5°	361.2	362.6	363.7	367.8	371.1
150°	375.1	375.8	376.5	376.5	377.1
152.5°	386.5	387.5	387.9	388.6	386.8
155°	398.5	398.5	398.9	400.3	397.8
157.5°	408.9	408.5	408.9	410.3	408.1
160°	418.5	417.7	417.7	419.5	418.1
162.5°	427.0	425.9	426.3	428.1	425.6
165°	434.1	433.0	433.0	435.2	432.7
167.5°	440.1	438.7	439.1	441.2	439.1
170°	445.1	443.7	443.7	446.2	443.7
172.5°	449.0	447.6	447.6	449.7	447.3
175°	451.5	450.1	450.1	452.2	449.7
177.5°	452.9	451.5	451.5	453.7	451.2
180°	452.6	452.6	452.6	452.6	452.6

(END OF REPORT)