

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: P1011384

Luminaire Tested: S123DIP-B1165D585UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011384
REPORT IS A COMBINATION OF REPORTS P989528 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1165D585UB30-4F0-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

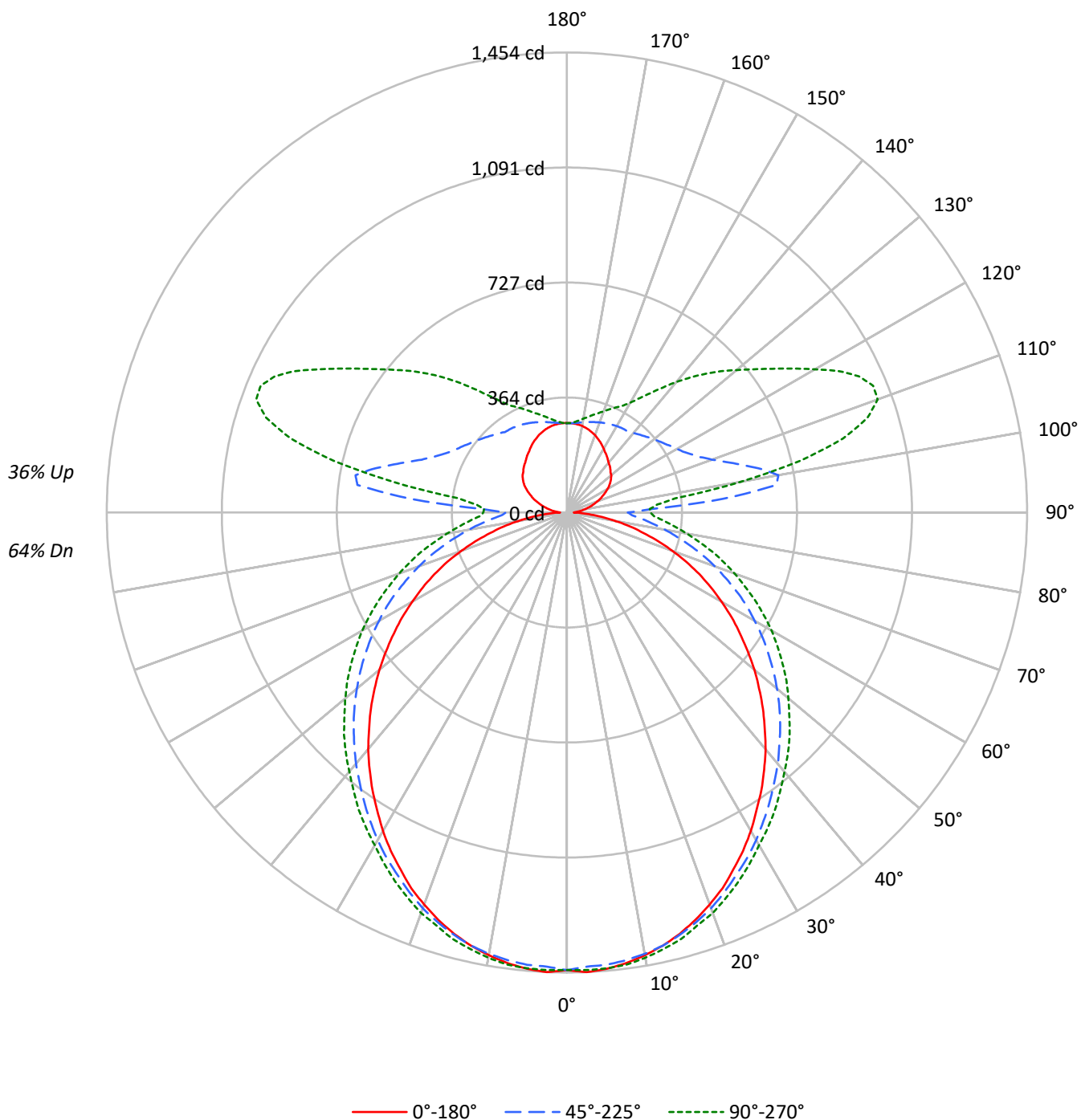
Lumens per Lamp: N/A
Luminaire Lumens: 6990.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	110	110	110	110	104	104	104	104	91	91	91	79	79	79	69	69	69
1	100	95	90	86	93	89	85	81	78	75	72	68	66	63	59	57	55
2	90	82	75	69	84	77	71	66	67	63	59	59	55	52	51	48	46
3	82	72	63	57	76	67	60	54	59	53	49	52	47	43	45	41	38
4	75	63	55	48	70	59	52	46	52	46	41	46	41	37	40	36	33
5	69	56	47	41	64	53	45	39	47	40	35	41	36	32	36	32	28
6	63	50	42	35	59	47	40	34	42	36	31	37	32	28	32	28	25
7	58	45	37	31	55	43	35	30	38	32	27	34	28	24	29	25	22
8	54	41	33	27	51	39	32	26	35	28	24	31	26	22	27	23	20
9	51	38	30	24	47	36	28	23	32	26	22	28	23	20	25	21	18
10	47	35	27	22	44	33	26	21	29	23	19	26	21	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15566	15566	15566
5°	15608	15109	15097
10°	15462	14700	14588
15°	15258	14248	14048
20°	14967	13744	13467
25°	14610	13176	12866
30°	14243	12663	12263
35°	13834	12125	11772
40°	13442	11631	11252
45°	13007	11155	10825
50°	12578	10683	10361
55°	12102	10197	9933
60°	11636	9701	9496
65°	11159	9174	8984
70°	10437	8581	8455
75°	9529	7906	7911
80°	8469	7223	7290
85°	7415	6667	6844

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13007 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	2.0
10°-20°	391.1	5.6
20°-30°	584.8	8.4
30°-40°	698.2	10.0
40°-50°	730.6	10.5
50°-60°	685.6	9.8
60°-70°	572.6	8.2
70°-80°	409.5	5.9
80°-90°	245.2	3.5
90°-100°	313.5	4.5
100°-110°	560.9	8.0
110°-120°	512.3	7.3
120°-130°	391.0	5.6
130°-140°	294.1	4.2
140°-150°	209.0	3.0
150°-160°	143.1	2.0
160°-170°	84.0	1.2
170°-180°	27.3	0.4
0°-30°	1113.0	15.9
0°-40°	1811.3	25.9
0°-60°	3227.4	46.2
0°-90°	4454.7	63.7
90°-120°	1386.8	19.8
90°-150°	2280.9	32.6
90°-180°	2535.0	36.3
0°-180°	6990.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1448	1444	1435	1448	1446	137
15°	1378	1383	1382	1397	1396	388
25°	1244	1260	1265	1285	1285	574
35°	1071	1096	1117	1140	1147	670
45°	876	914	953	983	996	675
55°	668	720	777	819	832	598
65°	462	523	592	640	655	456
75°	250	324	403	455	474	268
85°	77	156	239	293	309	79
90°	22	105	192	248	264	16
95°	37	142	495	304	287	34
105°	79	148	578	966	903	83
115°	125	173	435	892	1018	124
125°	168	197	378	678	792	149
135°	194	229	342	537	620	150
145°	219	249	319	414	461	137
155°	247	267	309	351	366	114
165°	270	278	296	314	319	76
175°	282	282	284	288	287	27
180°	282	282	282	282	282	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1446.1	1446.1	1446.1	1446.1	1446.1
2.5°	1454.0	1449.2	1436.6	1449.2	1447.7
5°	1447.7	1444.5	1435.1	1447.7	1446.1
7.5°	1436.6	1436.6	1427.2	1442.9	1441.4
10°	1420.9	1424.0	1416.2	1431.9	1428.8
12.5°	1402.0	1406.7	1402.0	1416.2	1413.0
15°	1378.4	1383.1	1381.5	1397.3	1395.7
17.5°	1350.0	1359.5	1357.9	1372.1	1368.9
20°	1318.5	1327.9	1331.1	1345.3	1346.8
22.5°	1285.4	1294.9	1299.6	1318.5	1316.9
25°	1244.5	1260.2	1264.9	1285.4	1285.4
27.5°	1205.1	1222.4	1231.9	1249.2	1250.8
30°	1162.5	1183.0	1195.6	1214.5	1214.5
32.5°	1115.3	1138.9	1156.2	1176.7	1181.4
35°	1071.2	1096.4	1116.9	1140.5	1146.8
37.5°	1023.9	1052.3	1075.9	1102.7	1107.4
40°	976.7	1005.0	1036.5	1063.3	1069.6
42.5°	924.7	960.9	994.0	1023.9	1033.4
45°	875.8	913.7	953.0	983.0	995.6
47.5°	823.9	866.4	910.5	943.6	953.0
50°	773.5	817.6	866.4	902.6	913.7
52.5°	719.9	767.2	822.3	860.1	874.3
55°	667.9	719.9	776.6	819.1	831.7
57.5°	617.5	671.1	732.5	775.0	789.2
60°	563.9	620.7	685.2	729.3	746.7
62.5°	513.5	571.8	641.1	685.2	701.0
65°	461.6	523.0	592.3	639.6	655.3
67.5°	409.6	474.2	543.5	595.4	608.1
70°	354.4	422.2	497.8	548.2	563.9
72.5°	304.0	371.8	450.5	502.5	518.3
75°	250.5	324.5	403.3	455.3	474.2
77.5°	204.8	278.8	357.6	412.7	426.9
80°	156.0	233.1	315.1	368.6	384.4
82.5°	113.4	192.2	275.7	329.2	345.0
85°	77.2	156.0	239.4	293.0	308.8
87.5°	47.3	126.0	206.4	259.9	275.7
90°	21.6	104.6	192.3	247.6	263.9
92.5°	27.5	120.8	271.7	253.7	261.9
95°	36.7	142.0	494.9	303.6	286.8
97.5°	46.7	144.8	667.7	442.4	345.5
100°	56.5	144.4	678.2	702.7	556.8
102.5°	66.9	145.0	631.6	868.0	754.9
105°	78.9	148.4	577.5	965.8	903.3
107.5°	89.9	153.5	528.7	1001.8	996.3
110°	102.1	158.9	488.2	993.8	1044.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.6	164.9	457.1	950.4	1047.2
115°	125.0	172.8	434.9	891.8	1017.9
117.5°	137.0	178.5	415.7	829.8	968.4
120°	148.0	184.2	401.6	770.7	904.8
122.5°	158.9	190.9	389.7	722.0	846.3
125°	167.6	197.0	378.4	677.8	791.7
127.5°	175.6	205.8	368.8	639.8	743.4
130°	183.0	214.9	359.3	604.1	700.3
132.5°	187.2	223.2	350.8	570.0	661.1
135°	194.1	229.3	342.3	536.8	620.3
137.5°	200.3	235.6	334.9	503.2	579.4
140°	205.0	241.4	328.0	471.9	538.4
142.5°	211.9	244.8	320.6	441.1	498.1
145°	219.3	249.4	319.4	414.0	460.6
147.5°	225.1	254.3	317.7	391.3	428.7
150°	232.6	258.2	315.4	373.4	400.4
152.5°	240.0	262.5	312.6	362.0	380.0
155°	247.4	266.9	309.2	351.4	366.3
157.5°	253.1	270.5	306.3	341.2	353.2
160°	260.0	273.8	302.9	331.7	340.6
162.5°	265.1	276.0	299.4	322.9	329.2
165°	270.3	278.0	296.0	314.0	319.4
167.5°	274.3	279.8	292.6	306.3	309.7
170°	277.7	280.6	289.2	299.4	301.2
172.5°	280.0	281.4	286.3	293.4	293.2
175°	281.7	282.0	284.0	288.0	287.4
177.5°	282.9	282.3	282.3	284.6	283.4
180°	282.3	282.3	282.3	282.3	282.3

(END OF REPORT)