

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: P1011195

Luminaire Tested: S123DIP-B1000D585UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011195
REPORT IS A COMBINATION OF REPORTS P989258 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D585UB50-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

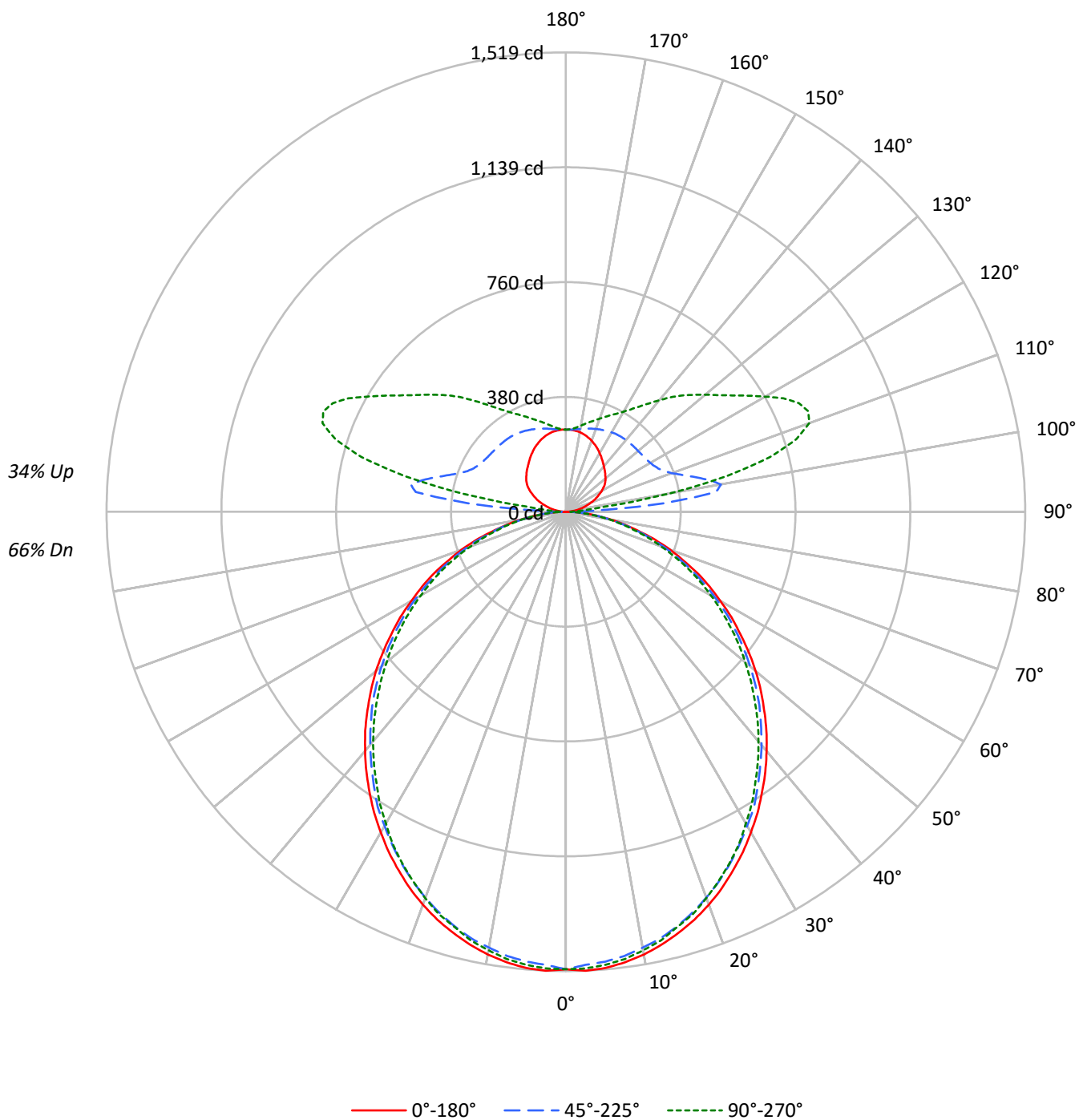
Lumens per Lamp: N/A
Luminaire Lumens: 5985.8 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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

TEST NUMBER: P1011195

CATALOG NUMBER: S123DIP-B1000D585UB50-4F0-XX-W2A-F4

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	104	104	104	104	92	92	92	81	81	81	71	71	71
1	101	97	93	89	95	91	88	85	81	78	76	71	69	67	62	61	60
2	92	85	78	73	86	80	74	69	71	66	63	62	59	56	55	52	50
3	84	74	67	61	79	70	63	58	62	57	53	55	51	48	49	45	43
4	77	66	58	51	72	62	55	49	55	50	45	49	45	41	43	40	37
5	71	59	50	44	66	56	48	42	50	44	39	44	39	35	39	35	32
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	35	31	28
7	60	48	40	34	57	45	38	32	41	35	30	36	31	27	32	28	25
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	23	20
10	49	37	29	24	46	35	28	23	32	26	22	28	24	20	26	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16283	16283	16283
5°	16323	15721	15697
10°	16178	15189	15033
15°	15953	14635	14309
20°	15696	14022	13592
25°	15362	13373	12824
30°	14997	12702	12018
35°	14614	12016	11216
40°	14214	11298	10428
45°	13773	10596	9603
50°	13326	9815	8776
55°	12751	9001	7939
60°	12158	8103	7047
65°	11603	7132	6116
70°	10802	6054	5032
75°	9647	4793	3906
80°	8333	3369	2763
85°	6493	1810	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13773 cd/sqm

TEST NUMBER: P1011195

CATALOG NUMBER: S123DIP-B1000D585UB50-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	2.4
10°-20°	402.7	6.7
20°-30°	594.7	9.9
30°-40°	694.6	11.6
40°-50°	698.3	11.7
50°-60°	613.4	10.2
60°-70°	456.8	7.6
70°-80°	260.0	4.3
80°-90°	75.4	1.3
90°-100°	154.3	2.6
100°-110°	431.3	7.2
110°-120°	420.5	7.0
120°-130°	334.9	5.6
130°-140°	264.3	4.4
140°-150°	197.2	3.3
150°-160°	137.6	2.3
160°-170°	80.8	1.4
170°-180°	26.3	0.4
0°-30°	1140.0	19.0
0°-40°	1834.6	30.6
0°-60°	3146.3	52.6
0°-90°	3938.5	65.8
90°-120°	1006.1	16.8
90°-150°	1802.6	30.1
90°-180°	2047.0	34.2
0°-180°	5985.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1514	1508	1493	1506	1504	144
15°	1441	1436	1419	1430	1422	406
25°	1308	1301	1284	1285	1281	603
35°	1132	1124	1107	1099	1093	708
45°	927	922	905	890	883	716
55°	704	702	686	671	665	630
65°	480	474	460	450	446	474
75°	254	248	244	238	234	271
85°	68	65	65	62	62	73
90°	1	7	14	15	16	6
95°	19	61	326	95	64	20
105°	64	94	442	773	699	68
115°	113	140	338	741	850	112
125°	157	185	316	572	671	139
135°	184	219	311	471	544	142
145°	209	240	307	386	425	131
155°	238	257	297	338	352	109
165°	260	267	285	302	307	73
175°	271	271	273	277	276	26
180°	272	272	272	272	272	

TEST NUMBER: P1011195

CATALOG NUMBER: S123DIP-B1000D585UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.7	1512.7	1512.7	1512.7	1512.7
2.5°	1519.2	1514.0	1499.7	1512.7	1511.4
5°	1514.0	1507.5	1493.2	1506.2	1503.6
7.5°	1502.3	1495.8	1481.5	1493.2	1491.9
10°	1486.7	1480.2	1463.3	1475.0	1472.4
12.5°	1465.9	1460.7	1445.1	1452.9	1451.6
15°	1441.2	1436.0	1419.1	1429.5	1421.7
17.5°	1413.9	1407.4	1390.5	1398.3	1395.7
20°	1382.7	1374.9	1358.0	1363.2	1359.3
22.5°	1347.6	1339.7	1322.8	1326.7	1321.5
25°	1308.5	1300.7	1283.8	1285.1	1281.2
27.5°	1268.2	1260.4	1242.2	1243.5	1239.6
30°	1224.0	1217.5	1199.3	1199.3	1190.2
32.5°	1179.8	1170.7	1157.6	1148.5	1144.6
35°	1131.6	1123.8	1106.9	1099.1	1092.6
37.5°	1083.5	1073.1	1056.2	1047.1	1043.2
40°	1032.8	1025.0	1006.8	996.4	991.2
42.5°	982.0	972.9	954.7	944.3	939.1
45°	927.4	922.2	905.3	889.7	883.2
47.5°	874.1	866.3	850.7	835.1	829.9
50°	819.5	813.0	796.0	781.7	773.9
52.5°	762.2	758.3	740.1	728.4	720.6
55°	703.7	702.4	685.5	671.2	664.7
57.5°	649.1	643.9	630.9	617.8	610.0
60°	589.2	587.9	572.3	560.6	554.1
62.5°	535.9	532.0	516.4	504.7	500.8
65°	480.0	473.5	460.5	450.1	446.1
67.5°	420.1	414.9	404.5	395.4	390.2
70°	366.8	359.0	351.2	342.1	335.6
72.5°	310.9	305.7	296.6	288.8	286.2
75°	253.6	248.4	244.5	238.0	234.1
77.5°	202.9	200.3	195.1	189.9	189.9
80°	153.5	149.6	147.0	145.7	145.7
82.5°	105.4	105.4	105.4	102.8	101.5
85°	67.6	65.0	65.0	62.4	62.4
87.5°	33.8	29.9	28.6	27.3	27.3
90°	1.1	6.6	13.7	15.4	15.9
92.5°	8.2	33.0	102.2	34.9	29.1
95°	18.7	60.8	325.9	95.1	63.8
97.5°	29.7	69.5	501.3	239.1	130.8
100°	40.7	76.7	520.5	500.2	344.6
102.5°	52.2	84.9	484.8	669.8	545.8
105°	63.8	94.2	441.9	772.8	699.2
107.5°	75.9	105.2	404.0	818.2	799.2
110°	89.0	116.5	372.7	819.6	856.4



TEST NUMBER: P1011195

CATALOG NUMBER: S123DIP-B1000D585UB50-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	101.1	128.4	351.8	788.5	867.9
115°	112.7	140.4	338.0	741.2	850.3
117.5°	124.2	152.0	328.7	690.7	811.8
120°	136.3	163.6	322.7	642.8	761.3
122.5°	146.8	174.5	318.8	605.2	714.0
125°	156.7	185.0	315.5	571.7	670.6
127.5°	164.3	194.9	313.9	544.2	633.2
130°	171.5	203.6	312.2	518.9	602.4
132.5°	177.0	211.6	311.7	495.2	572.2
135°	183.6	219.0	311.1	470.8	543.6
137.5°	189.6	225.1	310.0	447.7	513.4
140°	195.7	230.6	309.5	425.2	481.5
142.5°	202.3	235.6	308.4	404.5	451.8
145°	209.4	239.9	307.3	386.2	424.9
147.5°	216.6	244.6	305.6	371.8	401.8
150°	223.7	248.4	303.4	359.2	382.0
152.5°	230.9	252.6	300.7	348.2	365.5
155°	238.0	256.6	297.4	338.0	352.3
157.5°	243.5	260.2	294.6	328.2	339.7
160°	250.1	263.2	291.3	319.1	327.6
162.5°	255.0	265.5	288.0	310.5	316.6
165°	260.0	267.4	284.7	302.0	307.3
167.5°	263.8	269.0	281.4	294.6	297.9
170°	267.1	269.8	278.1	288.0	289.7
172.5°	269.3	270.7	275.4	282.2	282.0
175°	271.0	271.2	273.2	277.0	276.5
177.5°	272.1	271.5	271.5	273.7	272.6
180°	271.5	271.5	271.5	271.5	271.5

(END OF REPORT)