Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1010445

Luminaire Tested: S123DIP-B1000D585UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1010445
	REPORT IS A COMBINATION OF REPORTS P989214 AND P1007351
Test Lab:	INNOVATION CENTER
Issue Date:	5/7/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	S123DIP-B1000D585UB2750-4F0-XX-W2A-D_3000K
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:	6521.0 lumens
Efficiency:	N/A
Efficacy:	104.8 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:	General Diffuse

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

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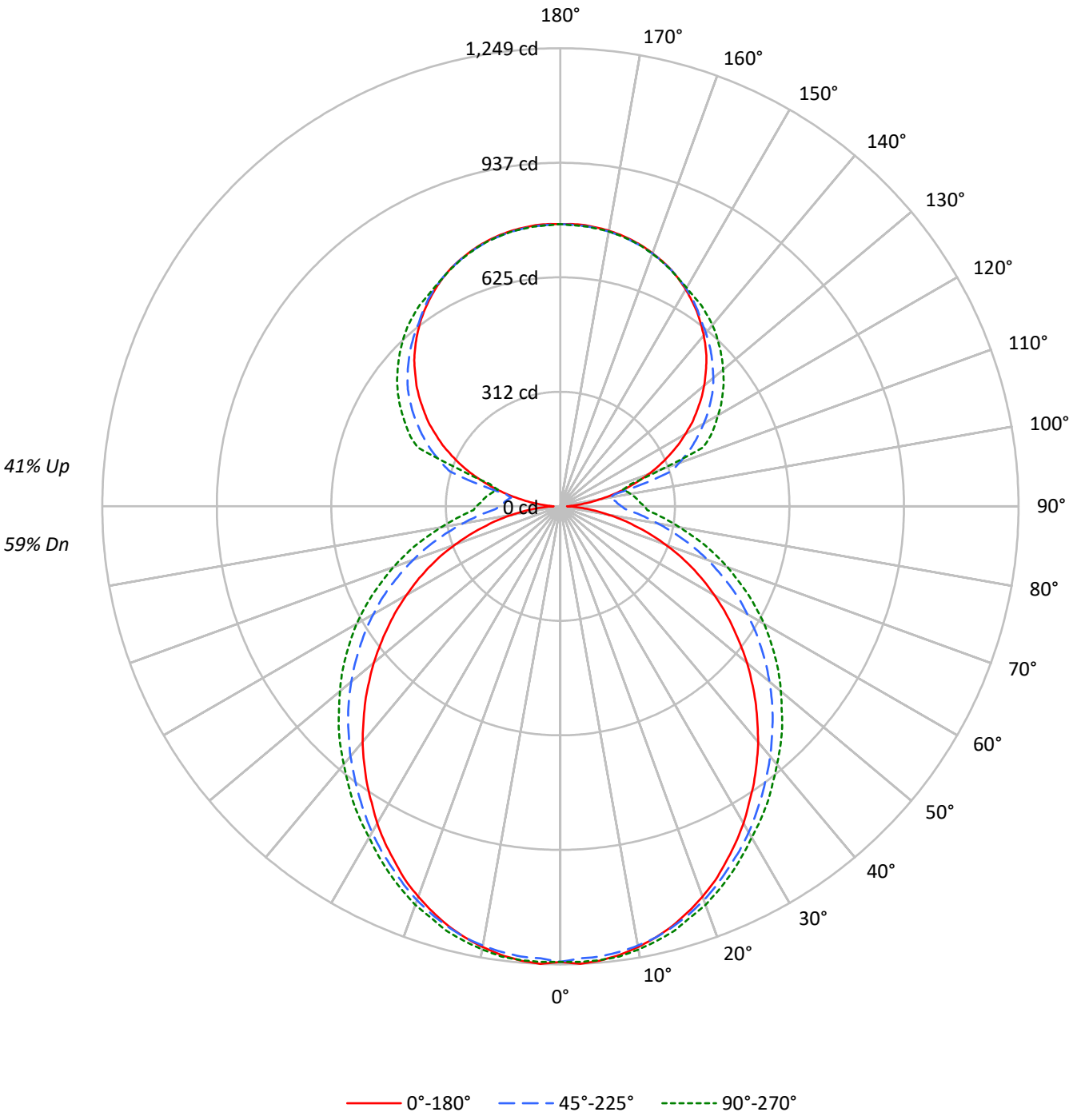
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	98	94	89	85	92	87	83	80	75	73	70	65	63	61	55	53	52	47
2	89	81	74	69	83	76	70	65	65	61	57	56	53	50	47	45	43	38
3	81	71	63	57	75	66	59	53	57	52	47	49	45	41	42	38	36	32
4	74	62	54	48	69	58	51	45	51	45	40	44	39	35	37	33	30	27
5	68	56	47	41	63	52	44	39	45	39	34	39	34	30	33	29	26	23
6	62	50	41	35	58	47	39	33	41	35	30	35	30	26	30	26	23	20
7	58	45	37	31	54	42	35	29	37	31	26	32	27	23	27	23	20	18
8	54	41	33	27	50	38	31	26	34	28	23	29	24	21	25	21	18	16
9	50	37	29	24	46	35	28	23	31	25	21	27	22	19	23	19	16	14
10	47	34	27	22	43	32	25	21	28	23	19	25	20	17	22	18	15	13

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	1.8
10°-20°	335.9	5.2
20°-30°	502.3	7.7
30°-40°	599.7	9.2
40°-50°	627.4	9.6
50°-60°	588.8	9.0
60°-70°	491.8	7.5
70°-80°	351.7	5.4
80°-90°	210.8	3.2
90°-100°	158.6	2.4
100°-110°	227.8	3.5
110°-120°	386.0	5.9
120°-130°	444.9	6.8
130°-140°	452.4	6.9
140°-150°	411.1	6.3
150°-160°	328.8	5.0
160°-170°	212.2	3.3
170°-180°	73.1	1.1
0°-30°	955.9	14.7
0°-40°	1555.6	23.9
0°-60°	2771.8	42.5
0°-90°	3826.0	58.7
90°-120°	772.4	11.8
90°-150°	2080.8	31.9
90°-180°	2695.0	41.3
0°-180°	6521.0	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	90	167	215	230	15
95°	50	79	152	198	211	53
105°	181	220	227	163	177	191
115°	326	346	400	438	451	323
125°	454	459	501	530	541	407
135°	563	566	583	609	614	434
145°	648	651	652	664	670	406
155°	713	712	712	715	712	328
165°	752	750	749	754	750	212
175°	769	766	767	771	766	73
180°	769	769	769	769	769	

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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°	*18.2*	90.2	166.6	214.9	229.5
92.5°	*29.3*	84.1	157.0	205.6	218.3
95°	*49.8*	79.0	151.6	197.6	211.1
97.5°	*76.9*	109.6	144.1	189.3	203.3
100°	*108.8*	163.5	136.6	180.3	194.5
102.5°	*145.1*	190.5	151.9	170.9	185.6
105°	*181.1*	219.9	226.7	163.3	176.7
107.5°	*218.1*	251.7	315.7	264.2	201.5
110°	*255.0*	284.0	344.4	360.7	289.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*291.6*	314.6	372.3	411.2	422.3
115°	*326.3*	345.9	399.8	438.0	451.1
117.5°	*361.8*	376.6	425.4	462.5	473.9
120°	*392.9*	404.9	451.2	486.9	496.4
122.5°	*426.1*	432.8	477.1	509.6	519.7
125°	*454.5*	459.1	500.6	530.1	540.8
127.5°	*484.2*	487.4	524.1	552.9	561.2
130°	*511.7*	514.8	544.2	572.2	579.2
132.5°	*536.6*	541.1	563.2	589.8	597.5
135°	*563.4*	565.6	582.6	608.8	613.8
137.5°	*586.3*	589.6	600.1	624.7	630.2
140°	*607.9*	611.3	617.0	639.6	645.2
142.5°	*629.0*	631.0	632.8	652.1	657.2
145°	*648.4*	651.0	652.2	664.1	669.5
147.5°	*665.9*	668.8	669.9	675.1	677.7
150°	*683.1*	684.8	685.9	687.1	688.0
152.5°	*698.5*	699.1	699.6	701.9	699.1
155°	*712.8*	711.6	712.2	715.1	711.6
157.5°	*724.2*	724.2	723.6	727.1	722.5
160°	*734.5*	733.9	733.4	736.8	732.8
162.5°	*744.2*	742.5	741.9	745.9	742.5
165°	*751.6*	749.9	749.4	753.9	749.9
167.5°	*757.9*	755.6	755.6	760.2	755.6
170°	*763.1*	760.8	760.8	765.4	760.8
172.5°	*766.5*	763.6	764.2	768.8	763.6
175°	*769.4*	766.5	767.1	771.1	766.5
177.5°	*770.5*	767.6	768.2	772.8	767.1
180°	*769.4*	769.4	769.4	769.4	769.4

(END OF REPORT)