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: P1010380

Luminaire Tested: S122RDIP-B865D925UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1010380
	REPORT IS A COMBINATION OF REPORTS P988805 AND P1007351
Test Lab:	INNOVATION CENTER
Issue Date:	5/7/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	S122RDIP-B865D925UB35-4F0-XX-W2A-F1
Description:	Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	6301.0 lumens
Efficiency:	N/A
Efficacy:	83.7 lumens/watt
Spacing Criteria (0/90/45):	1.2 / 0.99 / 1.16
Luminous Opening:	Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type:	General Diffuse

Input Watts (W):	75.3
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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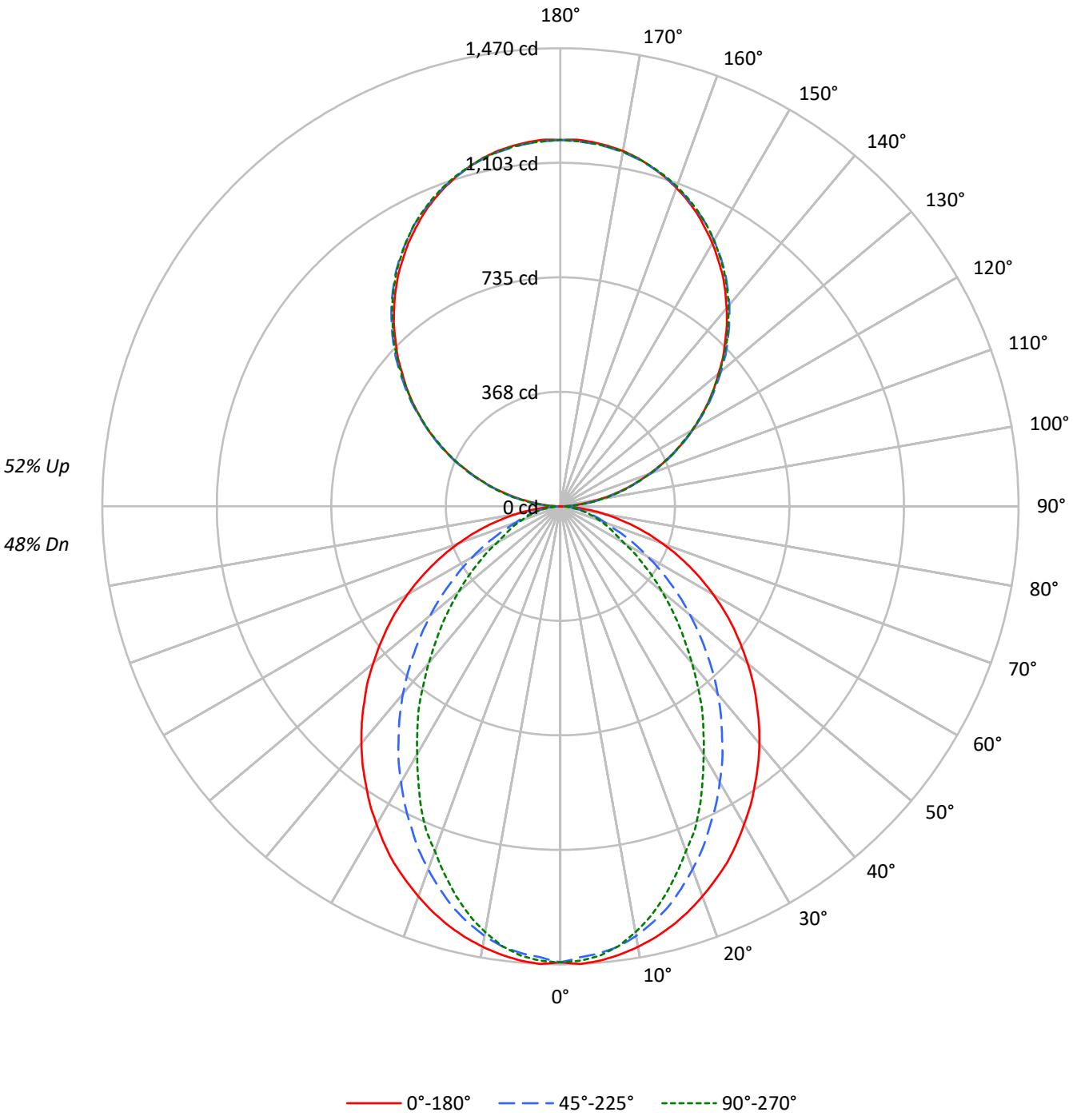
Luminous Intensity Polar Plot



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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	98	94	90	87	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	71	67	64	61	57	53	51	48	43	42	40	35
3	82	73	66	60	75	67	61	56	57	52	49	48	44	41	39	36	35	30
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30	26
5	69	58	50	44	63	54	47	42	46	41	36	39	35	31	32	29	27	23
6	64	52	44	39	59	48	41	36	41	36	32	35	31	28	29	26	24	21
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	27	23	21	19
8	55	43	35	30	51	40	33	29	34	29	25	29	25	22	24	21	19	17
9	51	39	32	27	47	37	30	26	32	26	23	27	23	20	23	20	17	15
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23168	23168	23168
5°	23205	22040	21878
10°	22975	20905	20215
15°	22660	19562	18318
20°	22242	18036	16337
25°	21815	16472	14523
30°	21240	14947	12542
35°	20676	13409	10840
40°	20106	11900	9088
45°	19440	10340	7560
50°	18751	8839	6156
55°	18034	7337	4886
60°	17202	5867	3698
65°	16243	4474	3006
70°	15084	3244	2390
75°	13633	2476	1826
80°	11529	1676	1226
85°	8052	768	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 19440 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	2.2
10°-20°	376.6	6.0
20°-30°	528.7	8.4
30°-40°	576.3	9.1
40°-50°	529.7	8.4
50°-60°	416.0	6.6
60°-70°	270.7	4.3
70°-80°	139.4	2.2
80°-90°	39.0	0.6
90°-100°	72.7	1.2
100°-110°	231.3	3.7
110°-120°	395.7	6.3
120°-130°	520.4	8.3
130°-140°	584.1	9.3
140°-150°	572.8	9.1
150°-160°	480.5	7.6
160°-170°	318.7	5.1
170°-180°	111.4	1.8
0°-30°	1042.4	16.5
0°-40°	1618.7	25.7
0°-60°	2564.3	40.7
0°-90°	3013.4	47.8
90°-120°	699.7	11.1
90°-150°	2377.1	37.7
90°-180°	3288.0	52.2
0°-180°	6301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1464	1457	1440	1452	1448	139
15°	1392	1378	1332	1307	1294	392
25°	1264	1221	1134	1080	1060	581
35°	1089	1021	905	821	792	681
45°	890	801	662	568	536	687
55°	677	574	430	351	326	605
65°	457	350	230	185	182	453
75°	244	151	106	97	95	258
85°	57	29	25	25	25	65
90°	1	13	35	33	34	6
95°	52	62	64	64	62	58
105°	213	216	218	220	220	225
115°	397	403	401	400	397	393
125°	578	586	584	580	580	516
135°	747	758	760	759	756	577
145°	907	914	920	921	917	567
155°	1037	1040	1043	1048	1045	477
165°	1128	1127	1127	1134	1129	318
175°	1174	1171	1169	1176	1170	112
180°	1176	1176	1176	1176	1176	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1463.6*	1463.6	1463.6	1463.6	1463.6
2.5°	*1470.2*	*1463.6*	*1449.0*	*1462.2*	*1459.6*
5°	*1463.6*	1456.9	1439.7	1451.6	1447.7
7.5°	*1451.6*	1443.7	1425.2	1430.4	1423.8
10°	*1435.7*	1426.5	1400.0	1396.0	1388.1
12.5°	*1415.9*	1404.0	1368.2	1360.3	1345.7
15°	*1392.0*	1377.5	1332.4	1307.3	1294.0
17.5°	*1364.2*	1343.0	1287.4	1258.3	1237.1
20°	*1332.4*	1305.9	1239.7	1206.6	1177.5
22.5°	*1298.0*	1267.5	1190.7	1145.7	1125.8
25°	*1263.6*	1221.2	1133.8	1079.5	1059.6
27.5°	*1222.5*	1177.5	1080.8	1018.5	988.1
30°	*1178.8*	1128.5	1022.5	955.0	919.2
32.5°	*1136.4*	1075.5	966.9	887.4	854.3
35°	*1088.7*	1021.2	904.6	821.2	792.0
37.5°	*1042.4*	969.5	846.3	755.0	721.8
40°	*993.4*	913.9	785.4	691.4	656.9
42.5°	*943.0*	858.3	724.5	626.5	593.4
45°	*890.1*	801.3	662.2	568.2	536.4
47.5°	*839.7*	745.7	602.6	508.6	479.5
50°	*784.1*	690.1	544.4	453.0	425.2
52.5°	*729.8*	630.5	488.7	401.3	376.2
55°	*676.8*	573.5	430.5	351.0	325.8
57.5°	*622.5*	516.6	378.8	304.6	283.4
60°	*566.9*	460.9	324.5	257.0	235.8
62.5°	*512.6*	406.6	278.1	214.6	204.0
65°	*456.9*	349.7	230.5	185.4	181.5
67.5°	*404.0*	296.7	185.4	162.9	158.9
70°	*348.3*	245.0	153.6	140.4	135.1
72.5°	*295.4*	197.3	128.5	117.9	115.2
75°	*243.7*	151.0	106.0	96.7	95.4
77.5°	*192.1*	107.3	83.4	78.1	75.5
80°	*144.4*	76.8	63.6	58.3	58.3
82.5°	*100.7*	51.7	43.7	41.1	41.1
85°	*57.0*	29.1	25.2	25.2	25.2
87.5°	*21.2*	10.6	10.6	9.3	9.3
90°	*1.0*	12.9	34.7	32.7	33.7
92.5°	*21.8*	29.8	30.8	31.8	31.8
95°	*51.6*	61.5	63.5	63.5	61.5
97.5°	*86.3*	95.3	99.2	99.2	99.2
100°	*126.0*	134.0	136.9	136.9	136.0
102.5°	*167.7*	173.7	177.6	178.6	177.6
105°	*213.4*	216.3	218.3	220.3	220.3
107.5°	*259.0*	263.0	263.0	264.0	259.0
110°	*302.7*	308.6	308.6	308.6	305.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*350.3*	356.2	355.3	352.3	350.3
115°	*396.9*	402.9	400.9	399.9	396.9
117.5°	*443.6*	451.5	446.6	443.6	440.6
120°	*490.2*	498.2	490.2	490.2	487.2
122.5°	*532.9*	542.8	537.8	534.9	532.9
125°	*577.5*	586.5	583.5	580.5	579.5
127.5°	*621.2*	632.1	628.2	624.2	621.2
130°	*661.9*	674.8	672.8	670.8	666.9
132.5°	*707.5*	717.5	718.5	713.5	710.5
135°	*747.2*	758.1	760.1	759.1	756.2
137.5°	*790.9*	799.8	801.8	800.8	796.8
140°	*829.6*	838.5	843.5	843.5	839.5
142.5°	*869.3*	878.2	881.2	882.2	878.2
145°	*907.0*	913.9	919.9	920.9	916.9
147.5°	*940.7*	949.7	953.6	955.6	951.7
150°	*975.5*	981.4	985.4	988.4	985.4
152.5°	*1006.2*	1012.2	1017.1	1021.1	1017.1
155°	*1037.0*	1040.0	1042.9	1047.9	1044.9
157.5°	*1063.8*	1065.8	1067.8	1074.7	1069.7
160°	*1087.6*	1089.6	1090.6	1096.5	1092.6
162.5°	*1109.4*	1109.4	1110.4	1117.4	1112.4
165°	*1128.3*	1127.3	1127.3	1134.2	1129.3
167.5°	*1145.2*	1142.2	1142.2	1149.1	1144.2
170°	*1158.1*	1155.1	1154.1	1161.0	1155.1
172.5°	*1167.0*	1164.0	1163.0	1170.0	1164.0
175°	*1173.9*	1171.0	1169.0	1175.9	1170.0
177.5°	*1177.9*	1174.9	1172.9	1178.9	1172.9
180°	*1175.9*	1175.9	1175.9	1175.9	1175.9

(END OF REPORT)