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: P1010361

Luminaire Tested: S122RDIP-B865D725UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1010361
	REPORT IS A COMBINATION OF REPORTS P988776 AND P1007351
Test Lab:	INNOVATION CENTER
Issue Date:	5/6/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	S122RDIP-B865D725UB50-4F0-XX-W2A-F
Description:	Define 2 Regressed 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:	5605.0 lumens
Efficiency:	N/A
Efficacy:	82.5 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):	67.9
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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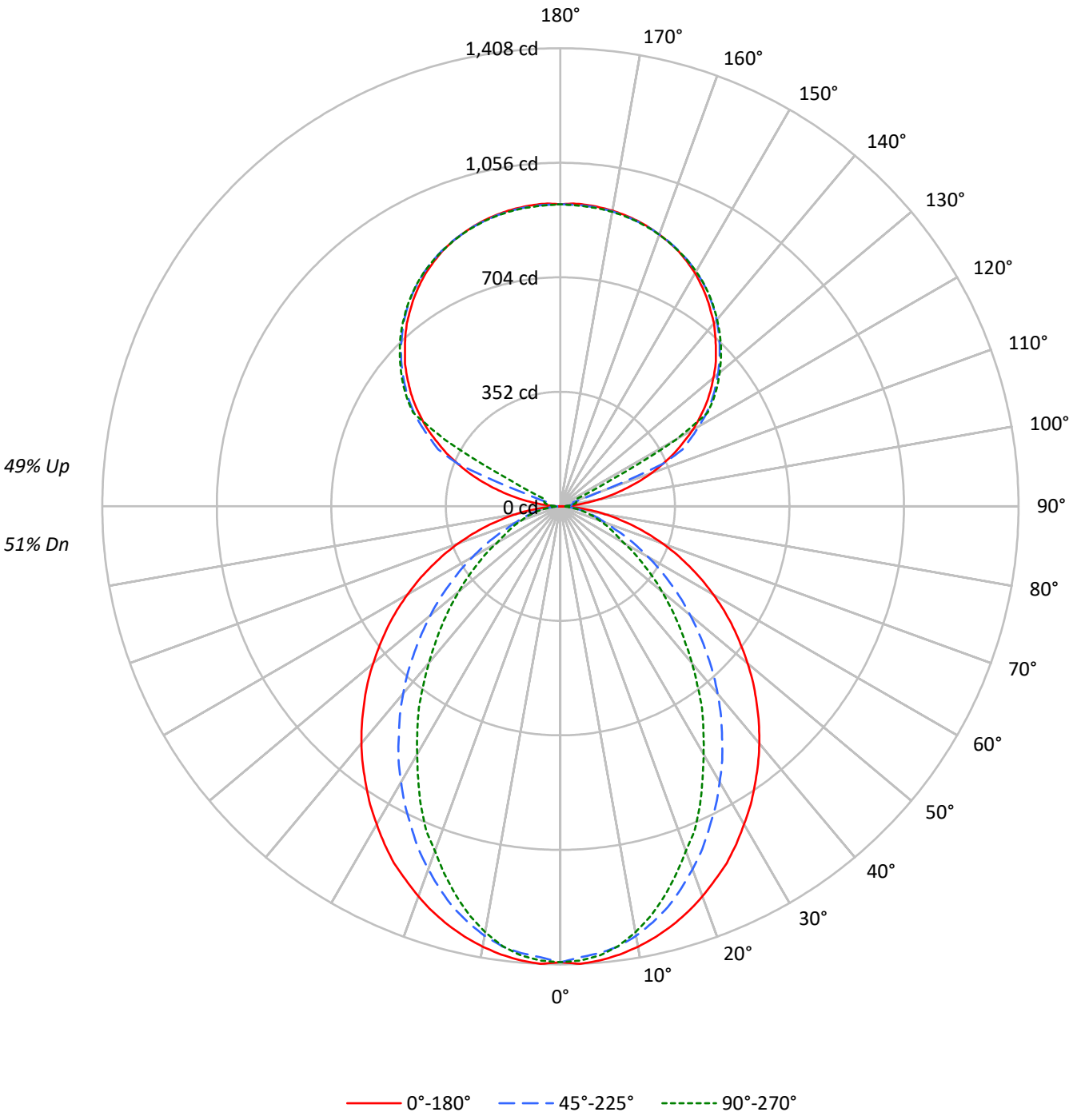
Luminous Intensity Polar Plot



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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	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	99	94	91	87	91	88	84	81	75	72	70	63	61	59	52	50	49	44
2	90	83	77	72	83	77	72	68	66	62	59	56	53	50	46	44	42	38
3	83	73	66	61	76	68	62	57	59	54	50	50	46	43	41	39	37	33
4	76	65	58	52	70	61	54	49	52	47	43	44	41	38	37	34	32	29
5	70	58	51	45	64	55	48	42	47	42	38	40	36	33	34	31	28	25
6	64	53	45	39	60	49	42	37	43	37	33	36	32	29	31	28	25	22
7	60	48	40	34	55	45	38	33	39	33	29	33	29	26	28	25	23	20
8	56	43	36	31	51	41	34	29	36	30	26	31	26	23	26	23	20	18
9	52	40	32	27	48	37	31	26	33	27	24	28	24	21	24	21	18	16
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22182	22182	22182
5°	22218	21103	20947
10°	21999	20016	19354
15°	21696	18731	17540
20°	21297	17270	15642
25°	20886	15770	13905
30°	20337	14311	12008
35°	19797	12840	10380
40°	19249	11394	8702
45°	18612	9901	7239
50°	17954	8462	5894
55°	17267	7025	4679
60°	16471	5617	3539
65°	15553	4283	2877
70°	14443	3107	2289
75°	13051	2371	1748
80°	11034	1605	1173
85°	7698	735	567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 18612 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	2.3
10°-20°	360.5	6.4
20°-30°	506.2	9.0
30°-40°	551.8	9.8
40°-50°	507.1	9.0
50°-60°	398.3	7.1
60°-70°	259.2	4.6
70°-80°	133.5	2.4
80°-90°	35.7	0.6
90°-100°	30.6	0.5
100°-110°	114.1	2.0
110°-120°	302.6	5.4
120°-130°	501.9	9.0
130°-140°	533.2	9.5
140°-150°	495.5	8.8
150°-160°	398.4	7.1
160°-170°	256.7	4.6
170°-180°	88.4	1.6
0°-30°	998.1	17.8
0°-40°	1549.8	27.7
0°-60°	2455.2	43.8
0°-90°	2883.6	51.4
90°-120°	447.3	8.0
90°-150°	1977.9	35.3
90°-180°	2721.0	48.5
0°-180°	5605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1401	1395	1378	1390	1386	133
15°	1333	1319	1276	1252	1239	376
25°	1210	1169	1086	1034	1014	556
35°	1042	978	866	786	758	652
45°	852	767	634	544	514	658
55°	648	549	412	336	312	579
65°	438	335	221	178	174	434
75°	233	145	102	93	91	247
85°	54	28	24	24	24	63
90°	1	8	13	17	18	5
95°	44	22	26	30	29	52
105°	204	224	41	48	51	218
115°	386	398	414	103	55	380
125°	546	555	568	572	574	487
135°	676	686	692	699	698	522
145°	784	783	795	799	796	490
155°	863	857	865	869	864	398
165°	910	905	907	912	907	257
175°	930	926	927	932	925	89
180°	928	928	928	928	928	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1401.3*	1401.3	1401.3	1401.3	1401.3
2.5°	*1407.7*	*1401.3*	*1387.4*	*1400.1*	*1397.5*
5°	*1401.3*	1395.0	1378.5	1389.9	1386.1
7.5°	*1389.9*	1382.3	1364.5	1369.6	1363.3
10°	*1374.7*	1365.8	1340.5	1336.6	1329.0
12.5°	*1355.7*	1344.3	1310.0	1302.4	1288.5
15°	*1332.8*	1318.9	1275.8	1251.7	1239.0
17.5°	*1306.2*	1285.9	1232.7	1204.8	1184.5
20°	*1275.8*	1250.4	1187.0	1155.3	1127.4
22.5°	*1242.8*	1213.6	1140.1	1097.0	1077.9
25°	*1209.8*	1169.2	1085.5	1033.6	1014.5
27.5°	*1170.5*	1127.4	1034.8	975.2	946.1
30°	*1128.7*	1080.5	979.0	914.3	880.1
32.5°	*1088.1*	1029.8	925.8	849.7	818.0
35°	*1042.4*	977.8	866.2	786.3	758.4
37.5°	*998.0*	928.3	810.4	722.9	691.2
40°	*951.1*	875.0	752.0	662.0	629.0
42.5°	*902.9*	821.8	693.7	599.8	568.1
45°	*852.2*	767.2	634.1	544.0	513.6
47.5°	*804.0*	714.0	577.0	487.0	459.1
50°	*750.8*	660.7	521.2	433.7	407.1
52.5°	*698.8*	603.6	468.0	384.3	360.2
55°	*648.0*	549.1	412.2	336.1	312.0
57.5°	*596.0*	494.6	362.7	291.7	271.4
60°	*542.8*	441.3	310.7	246.0	225.7
62.5°	*490.8*	389.3	266.3	205.4	195.3
65°	*437.5*	334.8	220.7	177.5	173.7
67.5°	*386.8*	284.1	177.5	156.0	152.2
70°	*333.5*	234.6	147.1	134.4	129.4
72.5°	*282.8*	189.0	123.0	112.9	110.3
75°	*233.3*	144.6	101.5	92.6	91.3
77.5°	*183.9*	102.7	79.9	74.8	72.3
80°	*138.2*	73.6	60.9	55.8	55.8
82.5°	*96.4*	49.5	41.8	39.3	39.3
85°	*54.5*	27.9	24.1	24.1	24.1
87.5°	*20.3*	10.1	10.1	8.9	8.9
90°	*0.7*	8.1	13.4	16.8	18.1
92.5°	*16.8*	14.1	16.1	17.5	18.1
95°	*43.7*	21.5	26.2	29.6	28.9
97.5°	*78.6*	23.5	34.3	36.3	36.9
100°	*118.9*	26.9	38.3	43.7	45.0
102.5°	*163.2*	161.9	39.6	47.0	49.0
105°	*204.2*	224.3	41.0	48.4	51.0
107.5°	*251.9*	268.7	42.3	49.7	52.4
110°	*297.6*	311.7	117.5	50.4	53.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*340.5*	352.6	341.2	51.7	53.7
115°	*386.2*	397.6	414.4	103.4	55.1
117.5°	*425.8*	439.3	450.7	354.7	178.7
120°	*470.2*	480.3	492.3	500.4	409.7
122.5°	*507.8*	518.5	532.0	536.0	536.7
125°	*546.1*	554.8	567.6	572.3	574.3
127.5°	*581.0*	590.4	600.5	607.2	607.9
130°	*613.9*	624.7	632.1	639.4	638.8
132.5°	*647.5*	656.2	663.6	669.7	669.0
135°	*675.7*	686.5	692.5	699.2	697.9
137.5°	*705.3*	713.3	720.0	726.8	724.8
140°	*734.2*	739.5	746.9	753.0	749.6
142.5°	*758.3*	763.0	771.8	777.1	773.8
145°	*783.9*	783.2	794.6	799.3	795.9
147.5°	*806.0*	804.0	815.4	818.8	816.1
150°	*827.5*	822.8	833.6	837.6	834.2
152.5°	*845.7*	840.3	850.4	854.4	849.7
155°	*863.1*	857.1	865.1	869.2	863.8
157.5°	*877.2*	871.8	877.9	882.6	877.2
160°	*889.3*	885.3	889.3	893.3	888.6
162.5°	*900.1*	896.0	899.4	904.1	898.0
165°	*909.5*	905.4	907.4	912.2	907.4
167.5°	*916.9*	912.8	914.8	919.5	913.5
170°	*922.9*	918.9	920.2	924.9	918.9
172.5°	*926.9*	922.9	924.2	928.9	922.9
175°	*930.3*	925.6	926.9	931.6	924.9
177.5°	*931.6*	926.9	927.6	932.3	926.3
180°	*928.3*	928.3	928.3	928.3	928.3

(END OF REPORT)