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: P1008333

Luminaire Tested: S122RDIP-B1005D725UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1008333
	REPORT IS A COMBINATION OF REPORTS P987953 AND P1007351
Test Lab:	INNOVATION CENTER
Issue Date:	5/7/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	S122RDIP-B1005D725UB2750-4F0-XX-W2A-F_5000K
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:	6079.0 lumens
Efficiency:	N/A
Efficacy:	73.8 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):	82.4
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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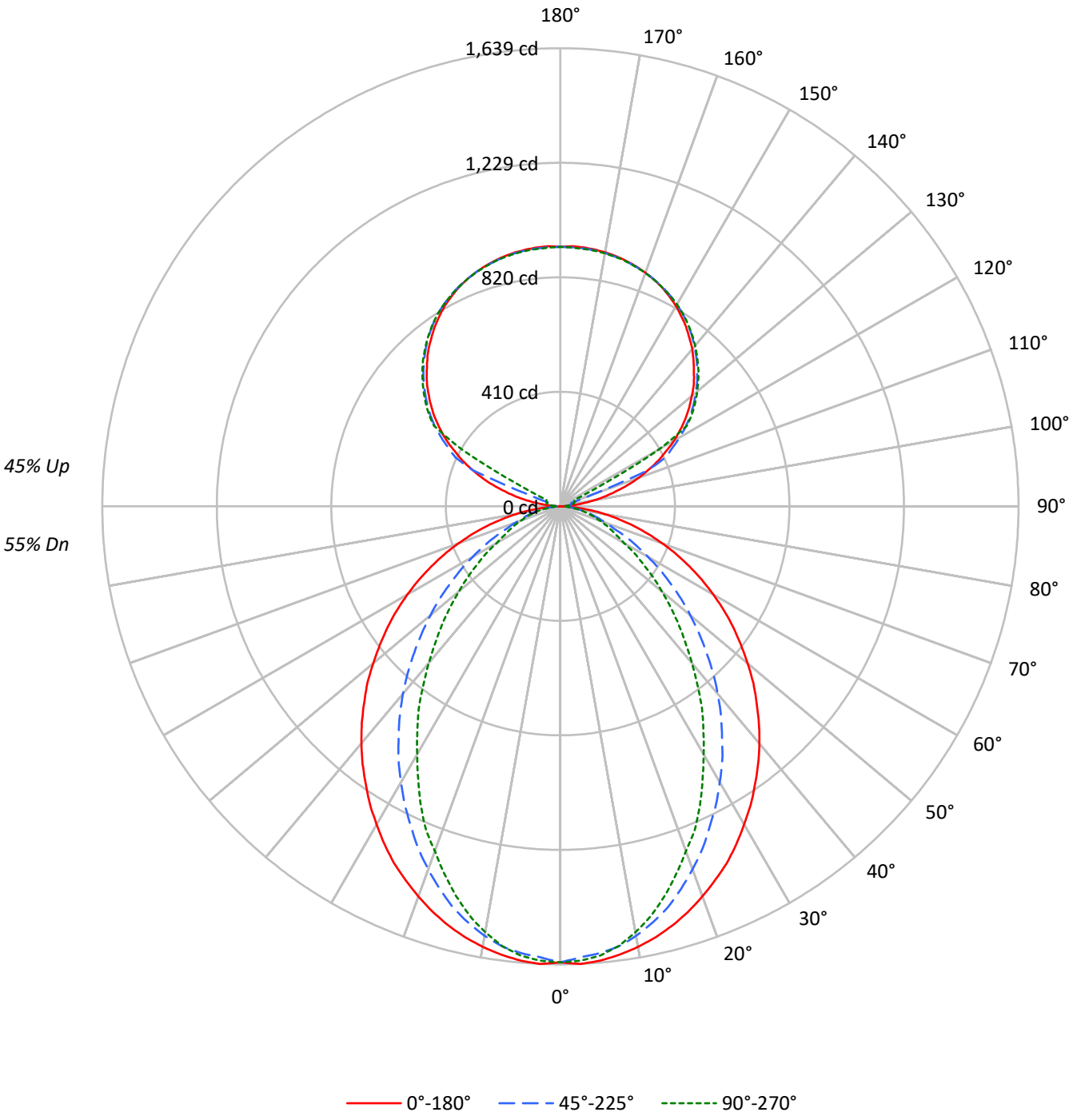
Luminous Intensity Polar Plot



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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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	99	95	92	88	92	89	86	83	76	74	72	65	63	62	55	54	53	48
2	91	84	78	73	84	78	73	69	68	64	60	58	55	53	49	47	45	41
3	83	74	67	61	77	69	63	58	60	55	51	52	48	45	44	41	39	35
4	77	66	58	52	71	62	55	50	54	49	44	46	42	39	39	36	34	31
5	71	59	51	45	65	55	48	43	48	43	39	42	38	34	36	33	30	27
6	65	53	45	40	60	50	43	38	44	38	34	38	34	30	33	29	27	24
7	60	48	41	35	56	45	38	33	40	34	30	35	30	27	30	27	24	21
8	56	44	36	31	52	41	35	30	37	31	27	32	28	24	28	24	22	19
9	52	40	33	28	49	38	31	27	34	28	24	30	25	22	26	22	20	18
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25830	25830	25830
5°	25872	24574	24392
10°	25617	23307	22538
15°	25266	21811	20425
20°	24800	20110	18215
25°	24322	18365	16192
30°	23681	16665	13984
35°	23054	14951	12087
40°	22417	13268	10134
45°	21674	11530	8430
50°	20905	9854	6862
55°	20107	8179	5449
60°	19178	6541	4123
65°	18112	4988	3351
70°	16820	3618	2664
75°	15199	2759	2035
80°	12854	1868	1367
85°	8970	857	661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 21674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	2.5
10°-20°	419.8	6.9
20°-30°	589.4	9.7
30°-40°	642.5	10.6
40°-50°	590.5	9.7
50°-60°	463.8	7.6
60°-70°	301.9	5.0
70°-80°	155.4	2.6
80°-90°	41.3	0.7
90°-100°	30.6	0.5
100°-110°	114.1	1.9
110°-120°	302.6	5.0
120°-130°	501.9	8.3
130°-140°	533.2	8.8
140°-150°	495.5	8.2
150°-160°	398.4	6.6
160°-170°	256.7	4.2
170°-180°	88.4	1.5
0°-30°	1162.2	19.1
0°-40°	1804.7	29.7
0°-60°	2859.0	47.0
0°-90°	3357.6	55.2
90°-120°	447.3	7.4
90°-150°	1977.9	32.5
90°-180°	2721.0	44.8
0°-180°	6079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1632	1624	1605	1618	1614	155
15°	1552	1536	1486	1458	1443	437
25°	1409	1362	1264	1204	1181	648
35°	1214	1139	1009	916	883	760
45°	992	893	738	634	598	766
55°	755	639	480	391	363	674
65°	510	390	257	207	202	505
75°	272	168	118	108	106	287
85°	64	32	28	28	28	73
90°	1	8	13	17	18	6
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°	*1631.8*	1631.8	1631.8	1631.8	1631.8
2.5°	*1639.2*	*1631.8*	*1615.6*	*1630.3*	*1627.4*
5°	*1631.8*	1624.4	1605.2	1618.5	1614.1
7.5°	*1618.5*	1609.6	1589.0	1594.9	1587.5
10°	*1600.8*	1590.4	1560.9	1556.5	1547.6
12.5°	*1578.6*	1565.3	1525.5	1516.6	1500.4
15°	*1552.1*	1535.8	1485.6	1457.5	1442.8
17.5°	*1521.0*	1497.4	1435.4	1402.9	1379.3
20°	*1485.6*	1456.1	1382.2	1345.3	1312.8
22.5°	*1447.2*	1413.2	1327.6	1277.4	1255.2
25°	*1408.8*	1361.6	1264.1	1203.5	1181.4
27.5°	*1363.0*	1312.8	1205.0	1135.6	1101.6
30°	*1314.3*	1258.2	1140.0	1064.7	1024.9
32.5°	*1267.0*	1199.1	1078.0	989.4	952.5
35°	*1213.9*	1138.6	1008.6	915.6	883.1
37.5°	*1162.2*	1081.0	943.6	841.7	804.8
40°	*1107.6*	1019.0	875.7	770.9	732.5
42.5°	*1051.4*	956.9	807.8	698.5	661.6
45°	*992.4*	893.4	738.4	633.5	598.1
47.5°	*936.3*	831.4	671.9	567.1	534.6
50°	*874.2*	769.4	606.9	505.0	474.0
52.5°	*813.7*	702.9	544.9	447.5	419.4
55°	*754.6*	639.4	479.9	391.3	363.3
57.5°	*694.1*	575.9	422.3	339.7	316.0
60°	*632.0*	513.9	361.8	286.5	262.9
62.5°	*571.5*	453.4	310.1	239.2	227.4
65°	*509.5*	389.9	257.0	206.7	202.3
67.5°	*450.4*	330.8	206.7	181.6	177.2
70°	*388.4*	273.2	171.3	156.5	150.6
72.5°	*329.3*	220.0	143.2	131.4	128.5
75°	*271.7*	168.3	118.1	107.8	106.3
77.5°	*214.1*	119.6	93.0	87.1	84.2
80°	*161.0*	85.7	70.9	65.0	65.0
82.5°	*112.2*	57.6	48.7	45.8	45.8
85°	*63.5*	32.5	28.1	28.1	28.1
87.5°	*23.6*	11.8	11.8	10.3	10.3
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)