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: P1009133

Luminaire Tested: S122DIP-B485D725UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1009133
	REPORT IS A COMBINATION OF REPORTS P984326 AND P1007351
Test Lab:	INNOVATION CENTER
Issue Date:	5/7/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	S122DIP-B485D725UB30-4F0-XX-W2A-D1
Description:	Define 2 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:	4490.0 lumens
Efficiency:	N/A
Efficacy:	99.6 lumens/watt
Spacing Criteria (0/90/45):	1.21 / 1.31 / 1.42
Luminous Opening:	Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type:	Semi-Indirect

Input Watts (W):	45.1
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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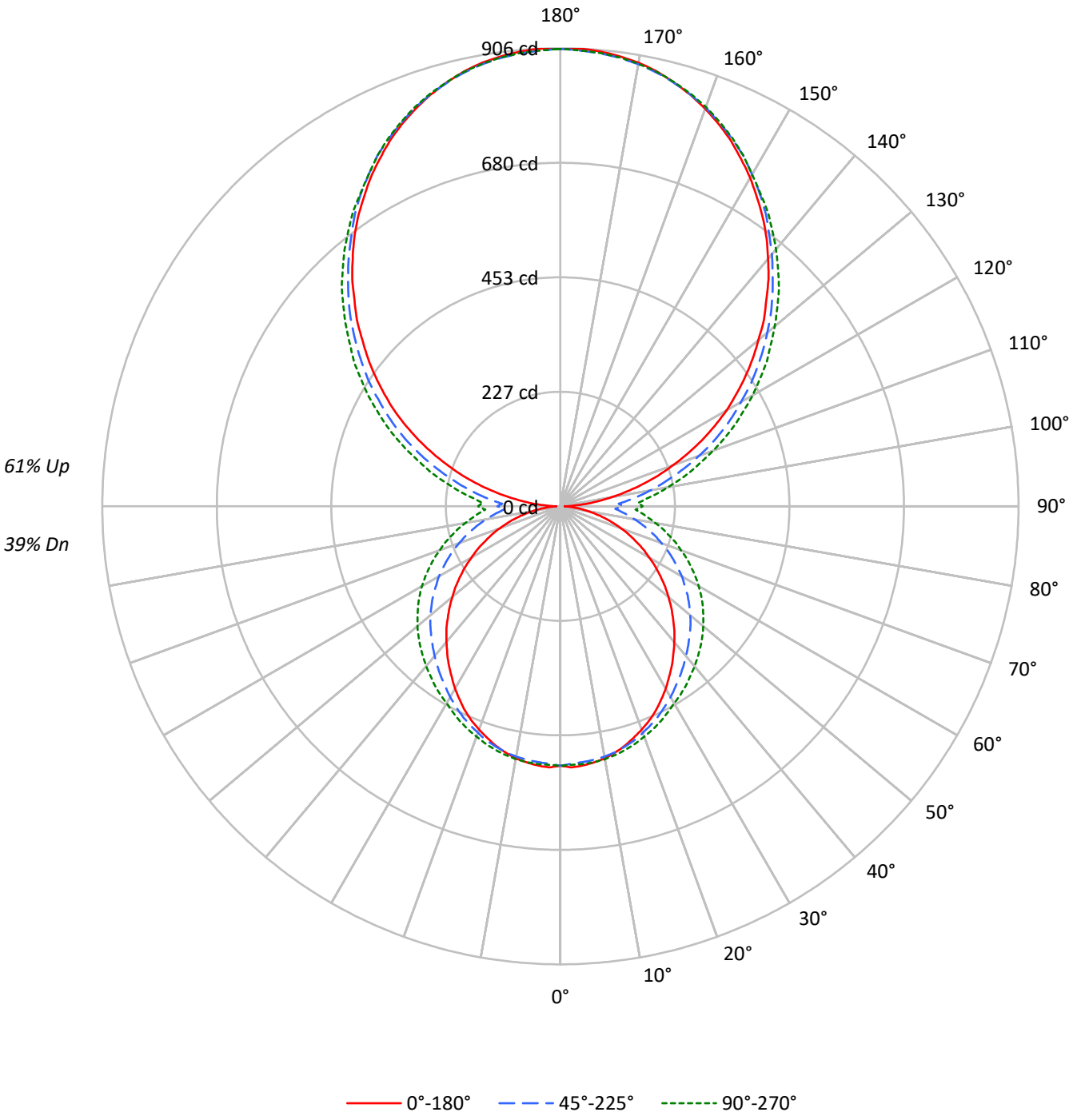
Luminous Intensity Polar Plot



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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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	94	89	85	81	85	81	77	74	66	63	61	52	50	48	39	37	36	30
2	85	77	71	65	77	70	65	60	57	53	49	45	42	39	33	31	30	24
3	77	68	60	54	70	61	55	49	50	45	41	39	36	33	29	27	25	20
4	71	59	51	45	64	54	47	42	44	39	34	35	31	28	26	23	21	17
5	65	53	44	38	58	48	41	35	39	34	29	31	27	24	23	20	18	15
6	59	47	39	33	54	43	36	30	35	30	25	28	24	21	21	18	16	13
7	55	42	34	29	49	39	32	27	32	26	22	25	21	18	19	16	14	11
8	51	38	31	25	46	35	28	23	29	23	20	23	19	16	17	14	12	10
9	47	35	27	22	43	32	25	21	26	21	17	21	17	14	16	13	11	9
10	44	32	25	20	40	29	23	18	24	19	16	19	15	13	15	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8122	8122	8122
5°	8159	7775	7733
10°	8105	7506	7397
15°	7990	7228	7054
20°	7846	6935	6728
25°	7703	6655	6432
30°	7505	6371	6139
35°	7302	6097	5924
40°	7090	5859	5711
45°	6886	5643	5524
50°	6669	5445	5341
55°	6440	5234	5153
60°	6160	5015	4957
65°	5869	4763	4730
70°	5539	4492	4486
75°	5119	4221	4257
80°	4455	3940	4018
85°	3786	3674	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	1.1
10°-20°	139.5	3.1
20°-30°	211.4	4.7
30°-40°	257.4	5.7
40°-50°	277.0	6.2
50°-60°	269.0	6.0
60°-70°	234.9	5.2
70°-80°	180.8	4.0
80°-90°	123.7	2.8
90°-100°	139.5	3.1
100°-110°	238.9	5.3
110°-120°	344.7	7.7
120°-130°	422.8	9.4
130°-140°	458.8	10.2
140°-150°	442.3	9.9
150°-160°	369.7	8.2
160°-170°	245.2	5.5
170°-180°	85.7	1.9
0°-30°	399.6	8.9
0°-40°	657.0	14.6
0°-60°	1202.9	26.8
0°-90°	1742.3	38.8
90°-120°	723.2	16.1
90°-150°	2047.2	45.6
90°-180°	2748.0	61.2
0°-180°	4490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	515	512	508	512	512	49
15°	491	492	492	499	498	138
25°	446	451	458	467	469	205
35°	384	397	411	428	433	240
45°	315	335	361	384	392	243
55°	242	268	307	334	344	216
65°	165	202	245	276	286	164
75°	92	133	181	213	222	97
85°	27	73	120	152	162	28
90°	8	60	125	153	163	8
95°	46	88	134	163	170	49
105°	168	192	232	260	268	178
115°	308	321	353	375	380	305
125°	446	453	474	492	498	399
135°	576	584	593	608	612	445
145°	698	703	708	713	714	436
155°	798	800	802	806	804	367
165°	868	867	867	873	869	245
175°	903	901	899	905	900	86
180°	905	905	905	905	905	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	513.1	513.1	513.1	*513.1*	513.1
2.5°	516.9	514.6	509.4	*513.1*	511.7
5°	514.6	512.4	507.9	*512.4*	511.7
7.5°	510.9	509.4	505.7	*510.9*	510.2
10°	506.5	505.0	502.7	*508.7*	507.9
12.5°	499.0	499.8	498.3	*504.2*	503.5
15°	490.8	492.3	492.3	*499.0*	498.3
17.5°	480.4	483.4	485.6	*492.3*	492.3
20°	470.0	473.7	476.7	*484.9*	484.9
22.5°	458.9	463.3	467.8	*476.0*	477.5
25°	446.2	451.4	458.1	*467.0*	469.3
27.5°	431.3	439.5	447.0	*458.1*	459.6
30°	416.5	426.1	435.8	*447.7*	449.9
32.5°	400.1	411.3	423.2	*437.3*	441.8
35°	384.5	397.1	411.3	*427.6*	432.8
37.5°	367.4	381.5	399.4	*417.2*	422.4
40°	350.3	366.6	386.7	*406.1*	412.8
42.5°	333.9	350.3	374.1	*395.6*	402.3
45°	315.3	335.4	361.4	*384.5*	391.9
47.5°	297.5	319.0	348.8	*372.6*	380.8
50°	278.9	301.9	335.4	*360.7*	368.9
52.5°	261.0	285.6	321.3	*347.3*	356.2
55°	241.7	268.5	307.1	*333.9*	343.6
57.5°	223.1	252.9	291.5	*320.5*	330.2
60°	203.0	235.0	277.4	*305.7*	316.1
62.5°	185.2	218.6	261.0	*291.5*	301.2
65°	165.1	201.5	245.4	*275.9*	285.6
67.5°	147.3	185.2	229.8	*260.3*	270.7
70°	127.9	166.6	212.7	*244.7*	253.6
72.5°	110.1	150.2	197.1	*228.3*	239.5
75°	91.5	133.1	180.7	*212.7*	222.4
77.5°	73.6	116.8	165.1	*197.1*	207.5
80°	55.8	101.1	149.5	*180.7*	191.1
82.5°	40.9	85.5	134.6	*165.8*	175.5
85°	26.8	72.9	120.5	*151.7*	162.1
87.5°	16.4	61.0	108.6	*139.1*	148.7
90°	8.2	60.5	124.9	*153.1*	162.8
92.5°	23.5	69.0	115.2	*144.9*	153.8
95°	45.6	88.2	134.4	*162.7*	170.0
97.5°	71.6	110.5	156.6	*184.1*	193.1
100°	102.2	135.8	179.8	*207.3*	214.7
102.5°	133.5	162.6	205.9	*233.3*	240.8
105°	167.8	191.7	232.0	*259.5*	267.7
107.5°	203.0	223.9	261.1	*287.1*	291.5
110°	235.9	255.2	291.7	*315.5*	321.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	272.5	289.0	322.4	*343.9*	350.6
115°	308.4	321.2	353.0	*374.6*	380.5
117.5°	343.5	355.6	383.0	*403.0*	408.2
120°	379.4	388.5	412.2	*433.0*	438.9
122.5°	412.2	420.6	444.3	*462.1*	467.3
125°	445.8	452.7	474.2	*492.0*	498.0
127.5°	479.4	487.0	504.1	*519.6*	524.0
130°	510.7	519.9	534.0	*550.3*	553.3
132.5°	545.9	552.7	564.7	*577.9*	581.6
135°	575.6	584.0	593.0	*607.9*	611.5
137.5°	609.2	616.1	621.4	*634.7*	636.9
140°	639.0	645.1	650.5	*662.4*	663.7
142.5°	669.5	675.7	678.0	*687.6*	688.3
145°	697.8	703.2	707.7	*713.0*	713.7
147.5°	723.8	730.6	733.7	*735.9*	735.2
150°	750.5	755.1	758.1	*760.4*	758.1
152.5°	774.2	778.7	782.6	*785.6*	782.6
155°	797.8	800.1	802.4	*806.2*	803.9
157.5°	818.4	820.0	821.5	*826.8*	823.0
160°	836.8	838.3	839.1	*843.6*	840.6
162.5°	853.6	853.6	854.3	*859.7*	855.9
165°	868.1	867.3	867.3	*872.7*	868.8
167.5°	881.1	878.8	878.8	*884.1*	880.3
170°	891.0	888.7	887.9	*893.3*	888.7
172.5°	897.8	895.6	894.8	*900.1*	895.6
175°	903.2	900.9	899.4	*904.7*	900.1
177.5°	*906.2*	*904.0*	*902.4*	*907.0*	*902.4*
180°	904.7	904.7	904.7	*904.7*	904.7

(END OF REPORT)