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: P1011444

Luminaire Tested: S123DIP-B1165D805UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1011444
	REPORT IS A COMBINATION OF REPORTS P989606 AND P1007351
Test Lab:	INNOVATION CENTER
Issue Date:	5/6/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	S123DIP-B1165D805UB40-4F0-XX-W2A-D4
Description:	Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7662.6 lumens
Efficiency:	N/A
Efficacy:	93.0 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):	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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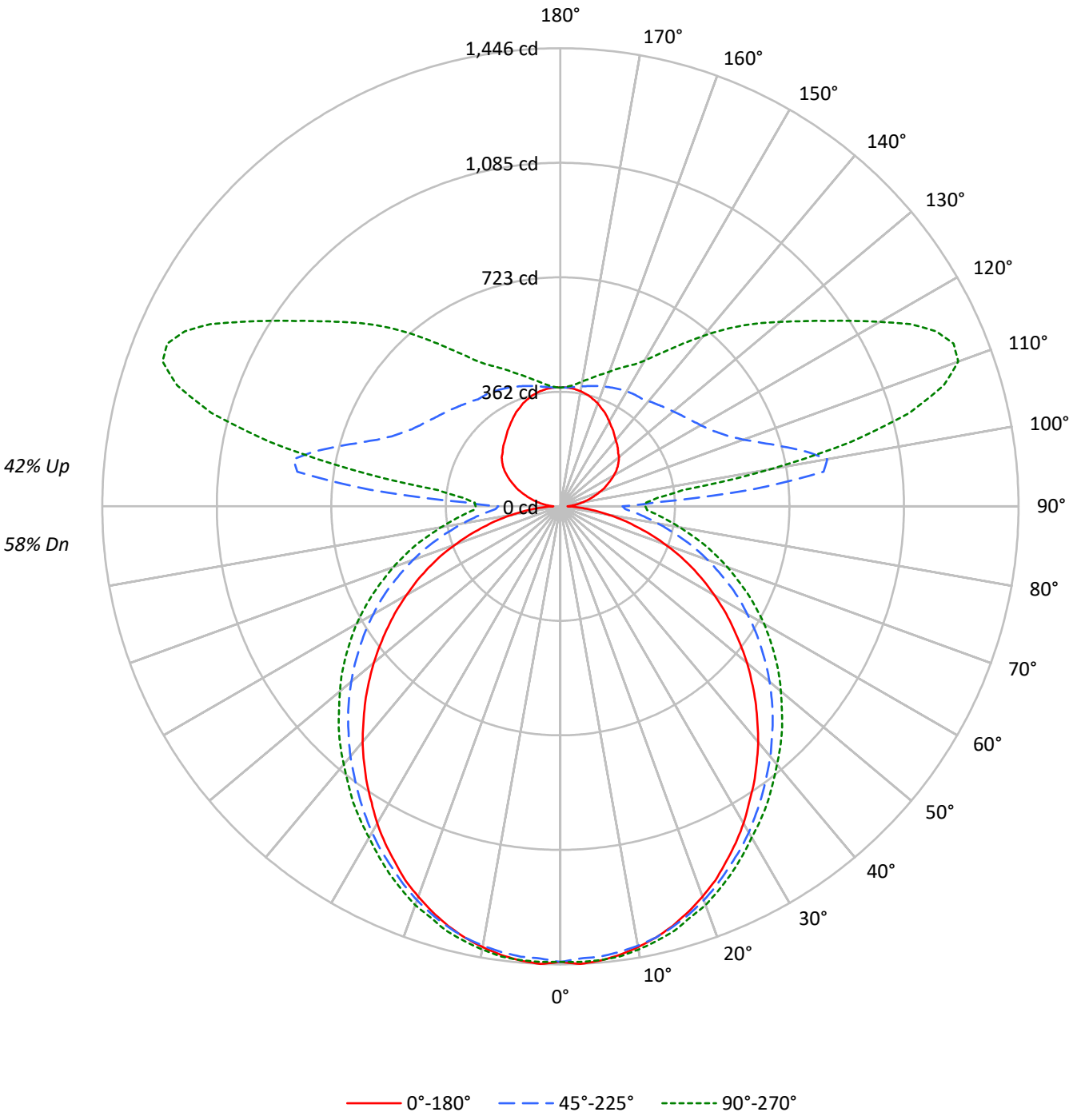
Luminous Intensity Polar Plot



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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	98	93	89	85	91	87	83	80	75	72	70	64	62	60	54	52	51	46
2	89	81	74	69	83	75	69	64	65	61	57	56	52	49	47	44	42	38
3	81	71	63	57	75	66	59	53	57	52	47	49	45	41	41	38	35	31
4	74	62	54	48	68	58	51	45	50	45	40	43	39	35	37	33	30	27
5	68	55	47	41	63	52	44	38	45	39	34	39	34	30	33	29	26	23
6	62	50	41	35	58	47	39	33	41	34	30	35	30	26	30	26	23	20
7	58	45	37	31	53	42	34	29	37	31	26	32	27	23	27	23	20	18
8	54	41	33	27	50	38	31	26	33	27	23	29	24	21	25	21	18	16
9	50	37	29	24	46	35	28	23	31	25	21	27	22	18	23	19	16	14
10	47	34	27	22	43	32	25	21	28	23	19	25	20	17	21	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15480	15480	15480
5°	15521	15025	15013
10°	15376	14618	14506
15°	15173	14168	13969
20°	14884	13668	13393
25°	14528	13103	12795
30°	14165	12593	12195
35°	13756	12058	11706
40°	13366	11567	11190
45°	12935	11093	10764
50°	12508	10623	10303
55°	12035	10141	9878
60°	11572	9647	9442
65°	11096	9122	8934
70°	10381	8533	8408
75°	9476	7861	7866
80°	8420	7181	7248
85°	7377	6630	6805

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 12935 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	1.8
10°-20°	388.9	5.1
20°-30°	581.6	7.6
30°-40°	694.4	9.1
40°-50°	726.5	9.5
50°-60°	681.7	8.9
60°-70°	569.4	7.4
70°-80°	407.2	5.3
80°-90°	244.4	3.2
90°-100°	365.4	4.8
100°-110°	707.6	9.2
110°-120°	655.6	8.6
120°-130°	505.1	6.6
130°-140°	384.2	5.0
140°-150°	276.4	3.6
150°-160°	190.0	2.5
160°-170°	111.6	1.5
170°-180°	36.3	0.5
0°-30°	1106.9	14.4
0°-40°	1801.2	23.5
0°-60°	3209.4	41.9
0°-90°	4430.4	57.8
90°-120°	1728.5	22.6
90°-150°	2894.2	37.8
90°-180°	3232.0	42.2
0°-180°	7662.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1440	1436	1427	1440	1438	137
15°	1371	1375	1374	1390	1388	386
25°	1238	1253	1258	1278	1278	570
35°	1065	1090	1111	1134	1140	666
45°	871	909	948	978	990	672
55°	664	716	772	815	827	595
65°	459	520	589	636	652	454
75°	249	323	401	453	472	266
85°	77	155	238	291	307	79
90°	22	106	196	252	268	17
95°	43	162	605	335	307	41
105°	101	180	728	1229	1141	106
115°	163	221	550	1144	1308	162
125°	221	260	486	872	1020	197
135°	257	304	448	697	806	198
145°	291	331	424	546	606	182
155°	329	354	411	467	487	151
165°	359	369	393	417	424	101
175°	374	375	377	383	382	36
180°	375	375	375	375	375	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1438.1*	1438.1	1438.1	1438.1	1438.1
2.5°	*1445.9*	*1441.2*	*1428.7*	*1441.2*	*1439.6*
5°	*1439.6*	1436.5	1427.1	1439.6	1438.1
7.5°	*1428.7*	1428.7	1419.3	1434.9	1433.4
10°	*1413.0*	1416.1	1408.3	1424.0	1420.8
12.5°	*1394.2*	1398.9	1394.2	1408.3	1405.2
15°	*1370.7*	1375.4	1373.8	1389.5	1387.9
17.5°	*1342.5*	1351.9	1350.3	1364.4	1361.3
20°	*1311.2*	1320.6	1323.7	1337.8	1339.4
22.5°	*1278.3*	1287.7	1292.4	1311.2	1309.6
25°	*1237.5*	1253.2	1257.9	1278.3	1278.3
27.5°	*1198.4*	1215.6	1225.0	1242.2	1243.8
30°	*1156.1*	1176.5	1189.0	1207.8	1207.8
32.5°	*1109.1*	1132.6	1149.8	1170.2	1174.9
35°	*1065.2*	1090.3	1110.7	1134.2	1140.4
37.5°	*1018.2*	1046.4	1069.9	1096.6	1101.3
40°	*971.2*	999.4	1030.8	1057.4	1063.7
42.5°	*919.5*	955.6	988.5	1018.2	1027.6
45°	*871.0*	908.6	947.7	977.5	990.0
47.5°	*819.3*	861.6	905.4	938.3	947.7
50°	*769.2*	813.0	861.6	897.6	908.6
52.5°	*715.9*	762.9	817.7	855.3	869.4
55°	*664.2*	715.9	772.3	814.6	827.1
57.5°	*614.1*	667.3	728.4	770.7	784.8
60°	*560.8*	617.2	681.4	725.3	742.5
62.5°	*510.7*	568.6	637.6	681.4	697.1
65°	*459.0*	520.1	589.0	636.0	651.7
67.5°	*407.3*	471.5	540.4	592.1	604.7
70°	*352.5*	419.8	495.0	545.1	560.8
72.5°	*302.3*	369.7	448.0	499.7	515.4
75°	*249.1*	322.7	401.0	452.7	471.5
77.5°	*203.6*	277.3	355.6	410.4	424.5
80°	*155.1*	231.8	313.3	366.6	382.2
82.5°	*112.8*	191.1	274.1	327.4	343.1
85°	*76.8*	155.1	238.1	291.4	307.0
87.5°	*47.0*	125.3	205.2	258.5	274.1
90°	*21.9*	106.2	196.0	251.6	267.9
92.5°	*30.2*	131.8	305.7	264.4	270.5
95°	*43.0*	162.2	605.3	335.0	307.4
97.5°	*56.7*	168.2	838.0	523.0	389.0
100°	*70.3*	170.1	855.2	872.5	673.4
102.5°	*84.6*	173.7	796.5	1095.7	940.2
105°	*100.6*	180.3	727.9	1228.8	1141.0
107.5°	*115.8*	189.3	666.1	1280.4	1268.3
110°	*132.4*	198.5	615.0	1272.9	1336.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*149.1*	208.6	576.8	1219.0	1342.8
115°	*163.4*	220.6	549.9	1144.3	1307.6
117.5°	*179.4*	230.3	527.6	1065.1	1245.1
120°	*194.6*	240.0	511.4	989.6	1164.2
122.5°	*209.0*	250.4	498.3	928.2	1089.5
125°	*221.1*	260.2	485.8	872.5	1020.2
127.5°	*231.7*	272.2	475.8	825.2	959.1
130°	*241.6*	284.4	465.7	780.8	905.6
132.5°	*247.5*	295.4	457.0	738.8	856.1
135°	*256.7*	304.2	448.5	697.2	805.6
137.5°	*265.0*	312.5	440.7	656.0	754.4
140°	*271.9*	320.1	433.7	617.0	702.6
142.5°	*281.0*	325.3	425.9	579.2	652.2
145°	*290.8*	331.4	424.4	545.8	605.6
147.5°	*299.1*	337.8	422.1	518.2	565.9
150°	*309.0*	343.2	419.0	496.1	530.7
152.5°	*318.8*	348.8	415.3	480.9	504.8
155°	*328.7*	354.5	410.7	466.8	486.6
157.5°	*336.3*	359.5	406.9	453.2	469.2
160°	*345.4*	363.6	402.3	440.6	452.5
162.5°	*352.2*	366.6	397.8	428.9	437.3
165°	*359.1*	369.4	393.2	417.2	424.4
167.5°	*364.4*	371.6	388.7	406.9	411.5
170°	*368.9*	372.8	384.1	397.8	400.1
172.5°	*372.0*	373.9	380.3	389.8	389.4
175°	*374.3*	374.6	377.3	382.6	381.9
177.5°	*375.8*	375.0	375.0	378.1	376.5
180°	*375.0*	375.0	375.0	375.0	375.0

(END OF REPORT)