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: P1025567

Luminaire Tested: S124DIP-B575D1205UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1025567
	REPORT IS A COMBINATION OF REPORTS P996137 AND P1007351
Test Lab:	INNOVATION CENTER
Issue Date:	5/6/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	S124DIP-B575D1205UB50-4F0-XX-W2A-F1
Description:	Define 4 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:	6395.0 lumens
Efficiency:	N/A
Efficacy:	108.4 lumens/watt
Spacing Criteria (0/90/45):	1.2 / 1.17 / 1.29
Luminous Opening:	Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type:	Semi-Indirect

Input Watts (W):	59
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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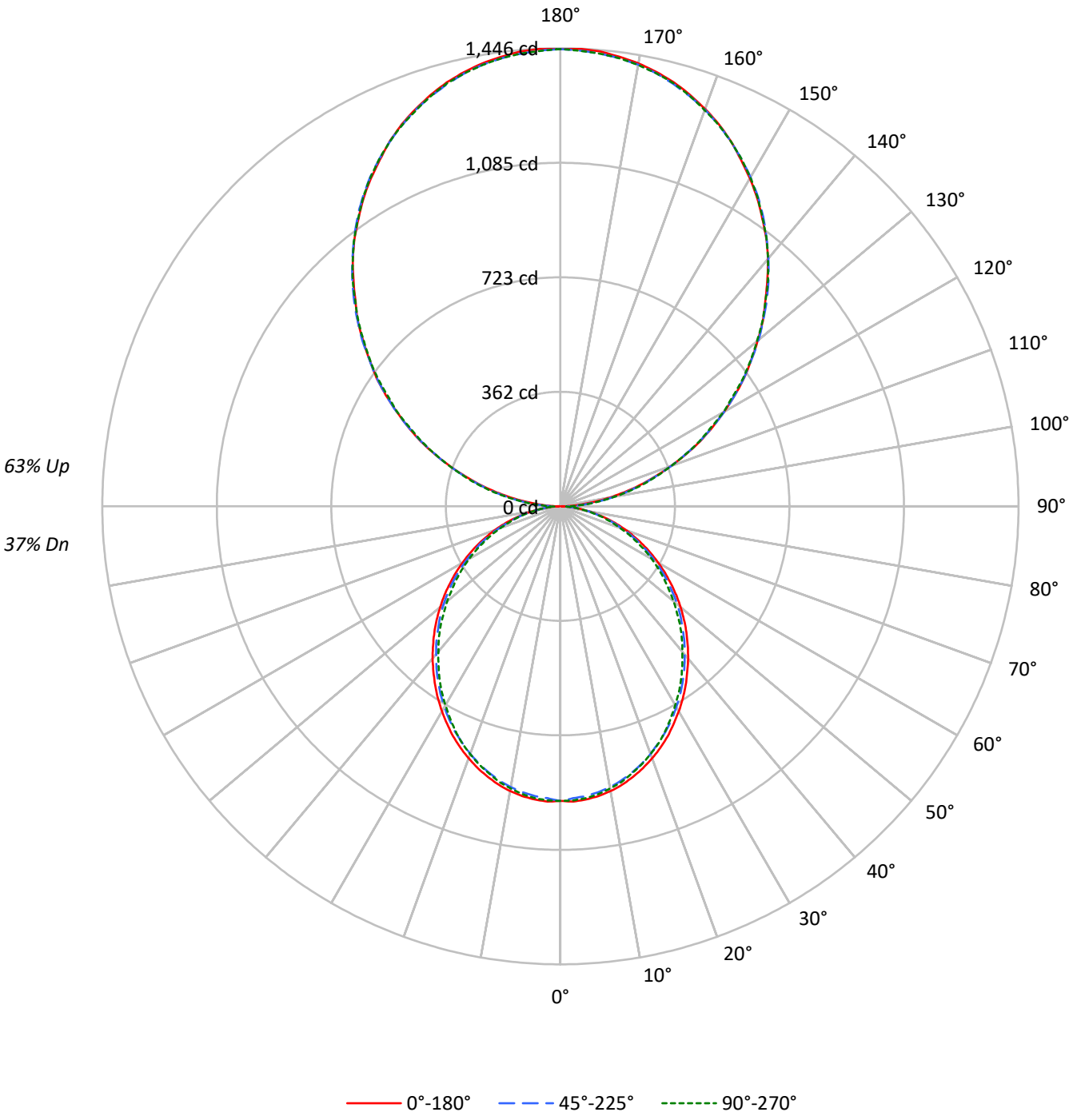
Luminous Intensity Polar Plot



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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	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	95	91	87	83	86	82	79	76	67	65	62	52	51	50	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	44	41	35	33	32	26
3	79	70	62	57	71	63	57	52	52	47	43	41	38	35	31	29	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	22	41	31	24	20	25	21	17	21	17	14	16	13	12	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7584	7584	7584
5°	7589	7366	7375
10°	7526	7161	7111
15°	7417	6918	6813
20°	7280	6655	6506
25°	7125	6377	6174
30°	6937	6077	5811
35°	6744	5769	5459
40°	6541	5438	5085
45°	6330	5106	4735
50°	6095	4785	4348
55°	5841	4408	3963
60°	5579	3997	3563
65°	5282	3572	3111
70°	4937	3059	2627
75°	4424	2467	2104
80°	3771	1783	1480
85°	2925	992	797

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6330 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	1.4
10°-20°	247.0	3.9
20°-30°	363.4	5.7
30°-40°	422.5	6.6
40°-50°	422.5	6.6
50°-60°	369.5	5.8
60°-70°	274.3	4.3
70°-80°	155.6	2.4
80°-90°	47.6	0.7
90°-100°	94.1	1.5
100°-110°	281.8	4.4
110°-120°	478.7	7.5
120°-130°	631.4	9.9
130°-140°	709.1	11.1
140°-150°	697.0	10.9
150°-160°	586.2	9.2
160°-170°	390.0	6.1
170°-180°	136.6	2.1
0°-30°	698.1	10.9
0°-40°	1120.5	17.5
0°-60°	1912.5	29.9
0°-90°	2390.1	37.4
90°-120°	854.6	13.4
90°-150°	2892.1	45.2
90°-180°	4005.0	62.6
0°-180°	6395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	930	930	930	930	930	
5°	929	926	918	926	925	88
15°	884	882	870	875	873	249
25°	801	796	785	786	783	369
35°	689	684	674	668	665	431
45°	563	557	546	537	535	434
55°	426	423	413	404	399	381
65°	288	285	277	270	266	285
75°	154	150	146	143	142	163
85°	40	40	39	39	38	43
90°	3	16	25	31	34	8
95°	67	77	85	88	88	73
105°	260	261	266	269	272	276
115°	487	487	484	483	482	480
125°	709	709	708	706	703	632
135°	914	921	921	919	915	707
145°	1111	1115	1116	1115	1112	695
155°	1273	1273	1272	1276	1272	586
165°	1385	1382	1380	1386	1382	391
175°	1441	1436	1434	1442	1434	137
180°	1443	1443	1443	1443	1443	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	930.0	930.0	930.0	*930.0*	930.0
2.5°	933.0	930.7	922.5	*930.0*	929.2
5°	929.2	926.3	918.1	*926.3*	924.8
7.5°	922.5	919.6	910.6	*917.3*	916.6
10°	912.9	909.9	900.2	*906.1*	904.7
12.5°	900.2	897.2	886.8	*893.5*	891.2
15°	884.5	881.6	870.4	*874.8*	872.6
17.5°	866.6	862.9	852.5	*855.5*	854.0
20°	846.5	842.8	831.6	*833.9*	832.4
22.5°	824.9	819.7	808.5	*813.0*	810.0
25°	801.1	795.9	785.4	*786.2*	783.2
27.5°	774.2	769.0	759.3	*757.9*	754.1
30°	747.4	741.5	731.8	*728.8*	725.1
32.5°	719.1	713.9	703.5	*699.7*	696.0
35°	689.3	684.1	673.6	*668.4*	664.7
37.5°	658.0	653.5	642.3	*637.1*	631.9
40°	627.4	621.5	610.3	*602.9*	599.1
42.5°	594.7	591.7	579.0	*570.1*	567.8
45°	562.6	557.4	545.5	*537.3*	535.0
47.5°	529.1	525.4	514.2	*505.2*	499.3
50°	494.8	491.8	481.4	*471.0*	466.5
52.5°	461.3	457.5	446.4	*437.4*	431.5
55°	425.5	423.3	412.8	*403.9*	399.4
57.5°	392.0	389.7	379.3	*370.4*	365.9
60°	356.9	353.2	343.5	*336.8*	333.1
62.5°	322.7	319.7	309.3	*303.3*	299.6
65°	288.4	284.7	277.2	*269.8*	266.0
67.5°	253.4	250.4	242.9	*235.5*	234.7
70°	221.3	216.1	210.1	*204.2*	201.9
72.5°	187.0	181.8	177.4	*172.9*	170.6
75°	153.5	149.8	146.1	*143.1*	142.3
77.5°	120.7	119.2	115.5	*114.8*	112.5
80°	91.7	89.4	87.9	*86.4*	85.7
82.5°	63.3	62.6	62.6	*61.9*	61.1
85°	40.2	40.2	38.7	*38.7*	38.0
87.5°	19.4	18.6	17.9	*17.9*	17.9
90°	3.3	15.6	24.6	*31.3*	33.5
92.5°	29.0	43.5	49.1	*52.5*	53.6
95°	67.0	77.0	84.8	*88.2*	88.2
97.5°	107.2	116.1	125.0	*129.5*	129.5
100°	156.3	160.8	170.8	*173.0*	173.0
102.5°	207.6	208.8	217.7	*221.0*	222.1
105°	260.1	261.2	265.7	*269.0*	272.4
107.5°	314.8	315.9	317.0	*321.5*	320.4
110°	370.6	372.9	371.7	*369.5*	372.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	428.7	428.7	426.4	*426.4*	426.4
115°	486.7	486.7	484.5	*483.4*	482.3
117.5°	541.4	541.4	540.3	*537.0*	533.6
120°	596.1	600.6	597.2	*591.7*	593.9
122.5°	653.0	654.2	653.0	*649.7*	644.1
125°	708.9	708.9	707.7	*705.5*	703.3
127.5°	759.1	762.4	760.2	*758.0*	756.9
130°	812.7	816.0	816.0	*813.8*	809.3
132.5°	867.4	869.6	868.5	*866.3*	865.1
135°	914.3	921.0	921.0	*918.7*	915.4
137.5°	966.7	970.1	972.3	*969.0*	970.1
140°	1019.2	1021.4	1021.4	*1020.3*	1019.2
142.5°	1067.2	1069.4	1068.3	*1068.3*	1068.3
145°	1110.7	1115.2	1116.3	*1115.2*	1111.9
147.5°	1155.4	1161.0	1159.9	*1158.7*	1157.6
150°	1195.6	1200.0	1200.0	*1200.0*	1198.9
152.5°	1233.5	1235.8	1236.9	*1240.2*	1236.9
155°	1272.6	1272.6	1271.5	*1276.0*	1271.5
157.5°	1306.1	1303.9	1303.9	*1307.2*	1303.9
160°	1335.1	1334.0	1332.9	*1336.2*	1330.7
162.5°	1361.9	1358.6	1357.4	*1364.1*	1358.6
165°	1385.4	1382.0	1379.8	*1386.5*	1382.0
167.5°	1404.3	1399.9	1399.9	*1406.6*	1399.9
170°	1420.0	1414.4	1415.5	*1422.2*	1414.4
172.5°	1431.1	1426.7	1426.7	*1434.5*	1426.7
175°	1441.2	1435.6	1434.5	*1442.3*	1434.5
177.5°	*1445.6*	*1440.1*	*1440.1*	*1447.9*	*1438.9*
180°	1443.4	1443.4	1443.4	*1443.4*	1443.4

(END OF REPORT)