

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: P1008692

Luminaire Tested: S122DIP-B1005D725UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008692
REPORT IS A COMBINATION OF REPORTS P983729 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D725UB30-4F0-XX-W2A-F1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

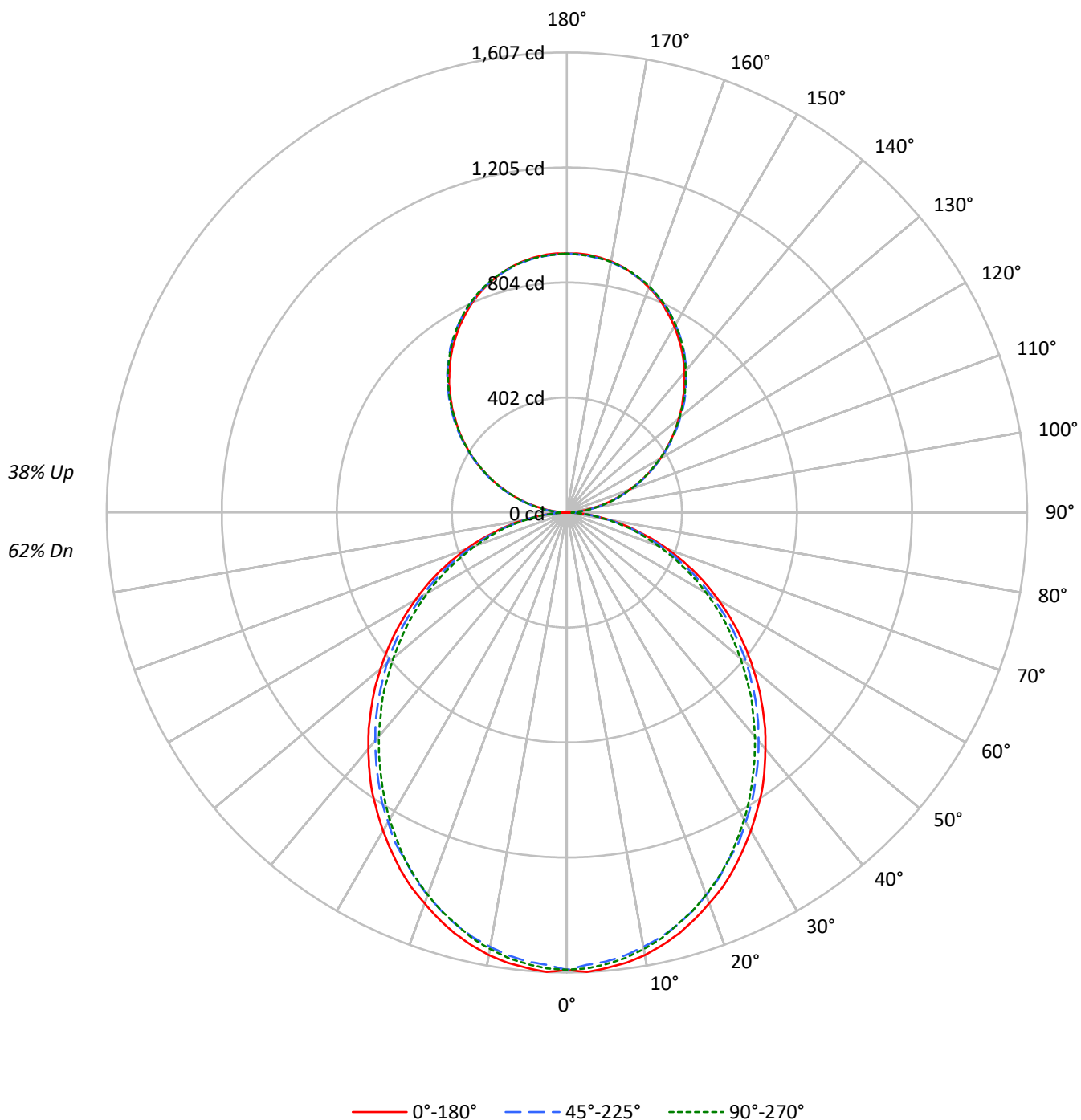
Lumens per Lamp: N/A
Luminaire Lumens: 6596.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
RC	80				70				50					30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	100	96	92	88	94	90	87	83	79	76	74	69	67	65	59	58	56	52
2	91	84	78	72	85	79	73	69	69	65	61	60	57	54	52	50	48	44
3	83	74	66	60	78	69	63	57	61	56	52	53	49	46	46	43	41	37
4	76	65	57	51	71	61	54	49	54	49	44	48	43	39	41	38	35	32
5	70	58	50	44	65	55	47	42	49	43	38	43	38	34	37	33	30	27
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	49	37	30	26	33	28	23	30	25	21	26	22	19	17
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25286	25286	25286
5°	25327	24101	23931
10°	25120	23004	22546
15°	24753	21896	21092
20°	24255	20693	19713
25°	23759	19436	18336
30°	23137	18254	16892
35°	22549	17008	15473
40°	21822	15778	14131
45°	21100	14558	12816
50°	20312	13317	11451
55°	19481	11990	10160
60°	18550	10553	8816
65°	17526	9093	7403
70°	16232	7493	5978
75°	14433	5777	4615
80°	12263	3926	2971
85°	8899	1826	1265

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	2.3
10°-20°	423.0	6.4
20°-30°	621.6	9.4
30°-40°	722.0	10.9
40°-50°	721.1	10.9
50°-60°	628.8	9.5
60°-70°	464.8	7.0
70°-80°	263.0	4.0
80°-90°	72.0	1.1
90°-100°	56.0	0.8
100°-110°	177.9	2.7
110°-120°	304.4	4.6
120°-130°	400.4	6.1
130°-140°	449.4	6.8
140°-150°	440.7	6.7
150°-160°	369.7	5.6
160°-170°	245.2	3.7
170°-180°	85.7	1.3
0°-30°	1195.0	18.1
0°-40°	1917.0	29.1
0°-60°	3266.8	49.5
0°-90°	4066.6	61.7
90°-120°	538.3	8.2
90°-150°	1828.9	27.7
90°-180°	2529.0	38.3
0°-180°	6596.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1597	1591	1574	1587	1584	152
15°	1521	1511	1491	1498	1490	428
25°	1376	1364	1338	1341	1338	633
35°	1187	1172	1147	1138	1130	741
45°	966	955	932	915	909	746
55°	731	722	704	685	677	654
65°	493	484	468	455	447	487
75°	258	255	247	238	241	275
85°	63	61	60	55	54	70
90°	1	10	27	25	26	6
95°	40	47	49	49	47	44
105°	164	166	168	170	170	173
115°	305	310	308	308	305	302
125°	444	451	449	447	446	397
135°	575	583	585	584	582	444
145°	698	703	708	708	706	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°	1597.4	1597.4	1597.4	1597.4	1597.4
2.5°	1606.6	1598.9	1582.0	1597.4	1594.3
5°	1597.4	1591.2	1574.3	1586.6	1583.6
7.5°	1586.6	1577.4	1560.5	1572.8	1569.7
10°	1569.7	1559.0	1540.6	1552.8	1548.2
12.5°	1546.7	1537.5	1519.1	1526.7	1523.7
15°	1520.6	1511.4	1491.4	1497.5	1489.9
17.5°	1488.3	1479.1	1459.1	1466.8	1459.1
20°	1453.0	1443.8	1422.3	1426.9	1420.8
22.5°	1417.7	1403.9	1383.9	1383.9	1380.8
25°	1376.2	1363.9	1337.8	1340.9	1337.8
27.5°	1330.1	1319.4	1299.4	1294.8	1287.1
30°	1284.1	1271.8	1248.7	1244.1	1238.0
32.5°	1234.9	1225.7	1201.1	1191.9	1185.8
35°	1187.3	1171.9	1147.4	1138.1	1130.5
37.5°	1133.5	1119.7	1095.1	1084.4	1076.7
40°	1078.2	1065.9	1041.4	1027.5	1021.4
42.5°	1024.5	1012.2	987.6	972.3	963.0
45°	966.1	955.4	932.3	915.4	909.3
47.5°	909.3	898.5	874.0	857.1	847.8
50°	849.4	841.7	820.2	798.7	791.0
52.5°	791.0	780.3	760.3	743.4	732.6
55°	731.1	721.9	703.5	685.0	677.4
57.5°	671.2	663.5	643.6	625.1	619.0
60°	611.3	605.2	583.7	566.8	562.2
62.5°	552.9	542.2	526.8	511.5	505.3
65°	493.0	483.8	468.5	454.6	447.0
67.5°	431.6	423.9	410.1	399.3	393.2
70°	374.8	368.6	354.8	344.1	337.9
72.5°	316.4	310.3	302.6	291.8	287.2
75°	258.0	255.0	247.3	238.1	241.1
77.5°	205.8	199.7	196.6	192.0	187.4
80°	153.6	152.1	149.0	144.4	141.3
82.5°	104.4	104.4	102.9	96.8	96.8
85°	63.0	61.4	59.9	55.3	53.8
87.5°	27.6	24.6	21.5	16.9	15.4
90°	0.8	9.9	26.7	25.2	26.0
92.5°	16.8	22.9	23.7	24.4	24.4
95°	39.7	47.3	48.9	48.9	47.3
97.5°	66.4	73.3	76.3	76.3	76.3
100°	97.0	103.1	105.4	105.4	104.6
102.5°	129.0	133.6	136.7	137.4	136.7
105°	164.1	166.4	168.0	169.5	169.5
107.5°	199.3	202.3	202.3	203.1	199.3
110°	232.9	237.4	237.4	237.4	235.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.5	274.1	273.3	271.0	269.5
115°	305.4	310.0	308.4	307.7	305.4
117.5°	341.3	347.4	343.6	341.3	339.0
120°	377.2	383.3	377.2	377.2	374.9
122.5°	410.0	417.6	413.8	411.5	410.0
125°	444.3	451.2	448.9	446.6	445.9
127.5°	477.9	486.3	483.3	480.2	477.9
130°	509.2	519.2	517.6	516.1	513.1
132.5°	544.4	552.0	552.8	548.9	546.6
135°	574.9	583.3	584.8	584.1	581.8
137.5°	608.5	615.4	616.9	616.1	613.1
140°	638.3	645.1	649.0	649.0	645.9
142.5°	668.8	675.7	678.0	678.7	675.7
145°	697.8	703.2	707.7	708.5	705.5
147.5°	723.8	730.6	733.7	735.2	732.2
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)