

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: P1010814

Luminaire Tested: S123RDIP-B1000D805UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010814
REPORT IS A COMBINATION OF REPORTS P992890 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D805UB2750-4F0-XX-W2A-F_2700K
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

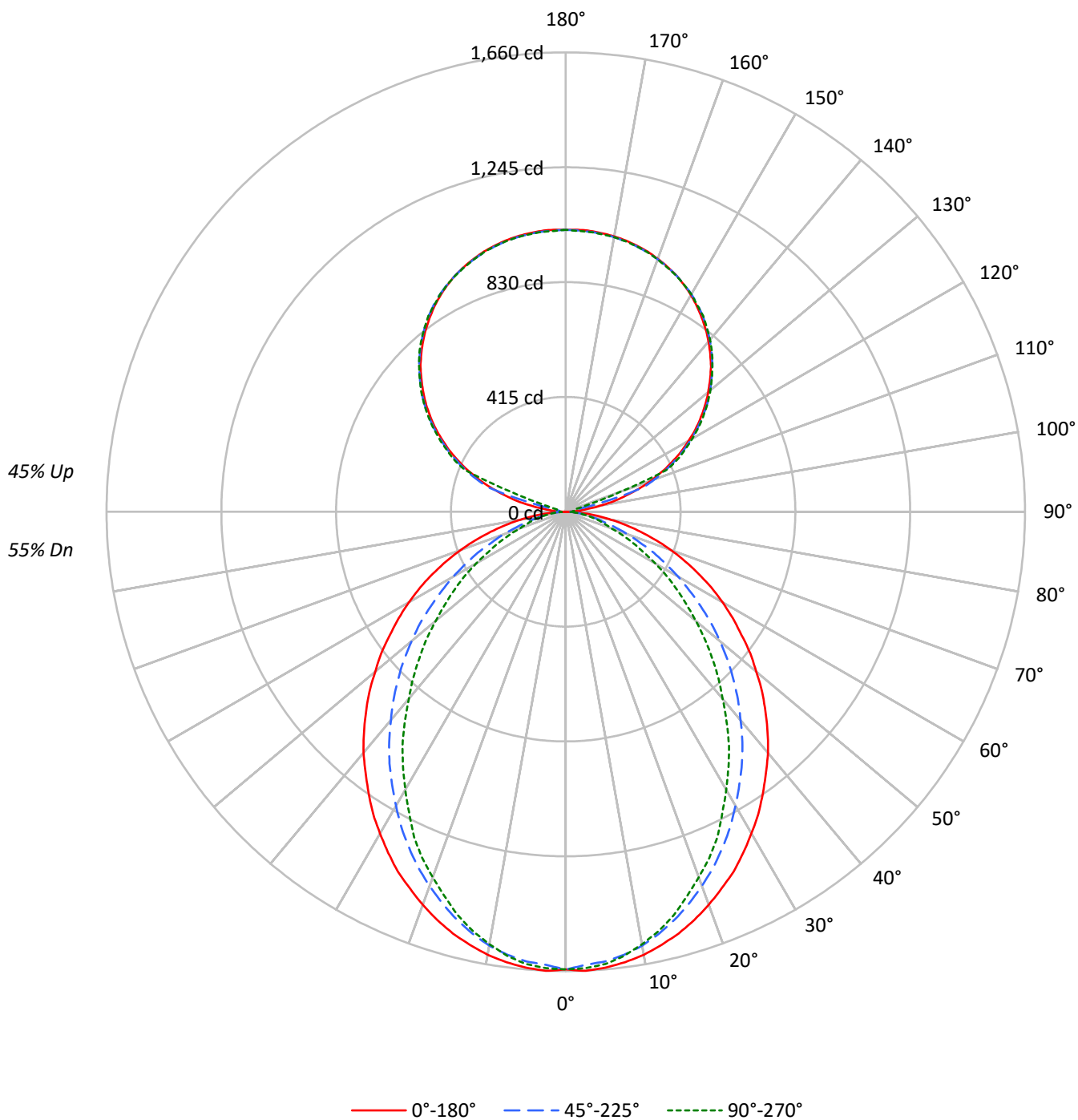
Lumens per Lamp: N/A
Luminaire Lumens: 6844.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
Input Voltage (V): 120
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
RCR																	
0	108	108	108	108	100	100	100	100	86	86	86		73	73	73		60
1	99	95	91	88	92	88	85	82	76	74	71		64	63	61		54
2	91	83	77	72	84	78	72	68	67	63	60		57	54	52		48
3	83	74	66	61	77	69	62	57	59	55	51		51	47	44		43
4	76	65	58	52	70	61	54	49	53	48	43		45	41	38		38
5	70	58	50	44	65	55	47	42	48	42	38		41	37	33		35
6	64	53	45	39	60	49	42	37	43	37	33		37	33	29		32
7	60	48	40	34	55	45	38	32	39	33	29		34	29	26		29
8	55	43	36	30	52	41	34	29	36	30	26		31	27	23		27
9	52	40	32	27	48	37	31	26	33	27	23		29	24	21		25
10	48	36	29	24	45	34	28	23	30	25	21		27	22	19		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17800	17800	17800
5°	17829	17170	17124
10°	17689	16525	16199
15°	17460	15727	15186
20°	17158	14859	14055
25°	16848	13958	12981
30°	16449	12998	11714
35°	16039	12056	10560
40°	15652	11032	9284
45°	15159	10031	8138
50°	14612	8963	6950
55°	14046	7819	5863
60°	13505	6646	4759
65°	12807	5442	3714
70°	11927	4115	2654
75°	10662	2788	2104
80°	9099	1937	1475
85°	6829	1047	774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15159 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	2.3
10°-20°	432.5	6.3
20°-30°	622.7	9.1
30°-40°	701.2	10.2
40°-50°	670.7	9.8
50°-60°	549.1	8.0
60°-70°	370.2	5.4
70°-80°	185.7	2.7
80°-90°	50.6	0.7
90°-100°	35.9	0.5
100°-110°	173.7	2.5
110°-120°	425.7	6.2
120°-130°	540.4	7.9
130°-140°	577.3	8.4
140°-150°	539.8	7.9
150°-160°	435.4	6.4
160°-170°	281.0	4.1
170°-180°	96.8	1.4
0°-30°	1210.6	17.7
0°-40°	1911.8	27.9
0°-60°	3131.6	45.8
0°-90°	3738.0	54.6
90°-120°	635.3	9.3
90°-150°	2292.7	33.5
90°-180°	3106.0	45.4
0°-180°	6844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1654	1647	1631	1643	1640	157
15°	1577	1562	1525	1518	1509	444
25°	1435	1402	1340	1312	1297	660
35°	1242	1194	1110	1053	1029	777
45°	1021	960	857	781	748	788
55°	775	710	596	518	491	695
65°	530	456	351	286	271	524
75°	280	216	142	129	126	299
85°	71	42	38	35	35	78
90°	1	8	18	21	23	7
95°	46	15	24	29	29	55
105°	226	234	166	32	33	239
115°	423	428	434	442	445	418
125°	596	602	606	607	609	533
135°	742	747	750	752	750	572
145°	857	862	864	865	865	536
155°	944	942	943	947	942	435
165°	995	993	992	998	993	281
175°	1019	1015	1016	1021	1015	97
180°	1019	1019	1019	1019	1019	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.7	1653.7	1653.7	1653.7	1653.7
2.5°	1660.4	1655.0	1638.9	1653.7	1651.0
5°	1653.7	1647.0	1630.9	1643.0	1640.3
7.5°	1641.6	1634.9	1614.8	1622.9	1618.8
10°	1625.5	1616.1	1592.0	1593.3	1586.6
12.5°	1602.7	1592.0	1561.2	1559.8	1551.8
15°	1577.3	1562.5	1524.9	1518.2	1508.8
17.5°	1546.4	1530.3	1483.4	1470.0	1456.5
20°	1511.5	1490.1	1439.1	1421.7	1405.6
22.5°	1472.6	1447.2	1392.2	1369.4	1354.6
25°	1435.1	1401.6	1339.9	1311.7	1296.9
27.5°	1389.5	1353.3	1286.2	1248.7	1225.9
30°	1342.5	1302.3	1227.2	1181.6	1160.1
32.5°	1295.6	1248.7	1168.2	1117.2	1094.4
35°	1242.0	1193.7	1110.5	1052.8	1028.7
37.5°	1188.3	1136.0	1048.8	984.4	954.9
40°	1137.3	1078.3	983.1	913.4	882.5
42.5°	1079.7	1020.7	921.4	843.6	816.8
45°	1020.7	960.3	857.0	780.6	748.4
47.5°	963.0	895.9	794.0	710.8	682.7
50°	898.6	835.6	726.9	643.8	612.9
52.5°	840.9	771.2	663.9	576.7	549.9
55°	775.2	709.5	595.5	517.7	490.9
57.5°	716.2	645.1	529.8	456.0	433.2
60°	654.5	580.7	469.4	397.0	374.2
62.5°	592.8	519.0	407.7	340.7	316.5
65°	529.8	456.0	351.4	285.7	270.9
67.5°	466.7	391.6	289.7	240.1	224.0
70°	405.0	332.6	238.7	191.8	177.0
72.5°	343.3	272.3	189.1	152.9	148.9
75°	280.3	215.9	142.2	128.8	126.1
77.5°	222.6	163.6	111.3	103.3	100.6
80°	167.6	112.7	84.5	80.5	77.8
82.5°	115.3	69.7	60.4	56.3	56.3
85°	71.1	41.6	37.6	34.9	34.9
87.5°	32.2	17.4	17.4	16.1	14.8
90°	0.8	8.3	18.2	21.2	22.7
92.5°	17.4	12.9	19.7	25.0	25.7
95°	46.2	15.1	23.5	28.8	28.8
97.5°	84.0	62.8	24.2	30.3	31.0
100°	127.9	143.1	25.0	31.0	31.8
102.5°	177.9	187.7	56.0	31.0	32.5
105°	225.6	233.9	165.8	31.8	33.3
107.5°	276.3	283.1	294.4	177.9	78.7
110°	327.0	333.0	341.4	316.4	208.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	375.4	380.7	389.1	395.9	394.4
115°	423.1	427.7	434.5	442.0	445.1
117.5°	470.1	475.3	479.1	485.2	485.9
120°	513.2	520.0	522.3	528.3	528.3
122.5°	557.1	562.4	565.4	569.2	570.0
125°	596.5	602.5	605.5	607.1	608.6
127.5°	635.8	641.9	645.7	647.9	646.4
130°	672.2	678.2	681.2	684.3	682.7
132.5°	707.0	713.0	715.3	718.3	716.1
135°	742.5	747.1	750.1	752.4	750.1
137.5°	772.8	778.9	780.4	784.2	782.7
140°	803.1	807.6	809.9	812.9	811.4
142.5°	831.1	835.6	837.9	840.2	837.9
145°	856.8	862.1	863.7	865.2	865.2
147.5°	881.8	885.6	887.1	888.6	884.8
150°	904.5	906.8	908.3	909.8	907.6
152.5°	925.0	925.7	926.5	929.5	925.7
155°	943.9	942.4	943.1	946.9	942.4
157.5°	959.0	959.0	958.3	962.8	956.8
160°	972.6	971.9	971.1	975.7	970.4
162.5°	985.5	983.2	982.5	987.8	983.2
165°	995.4	993.1	992.3	998.4	993.1
167.5°	1003.7	1000.7	1000.7	1006.7	1000.7
170°	1010.5	1007.5	1007.5	1013.5	1007.5
172.5°	1015.0	1011.3	1012.0	1018.1	1011.3
175°	1018.8	1015.0	1015.8	1021.1	1015.0
177.5°	1020.3	1016.6	1017.3	1023.4	1015.8
180°	1018.8	1018.8	1018.8	1018.8	1018.8

(END OF REPORT)