

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: P1011212

Luminaire Tested: S123DIP-B1000D805UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011212
REPORT IS A COMBINATION OF REPORTS P989290 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D805UB30-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

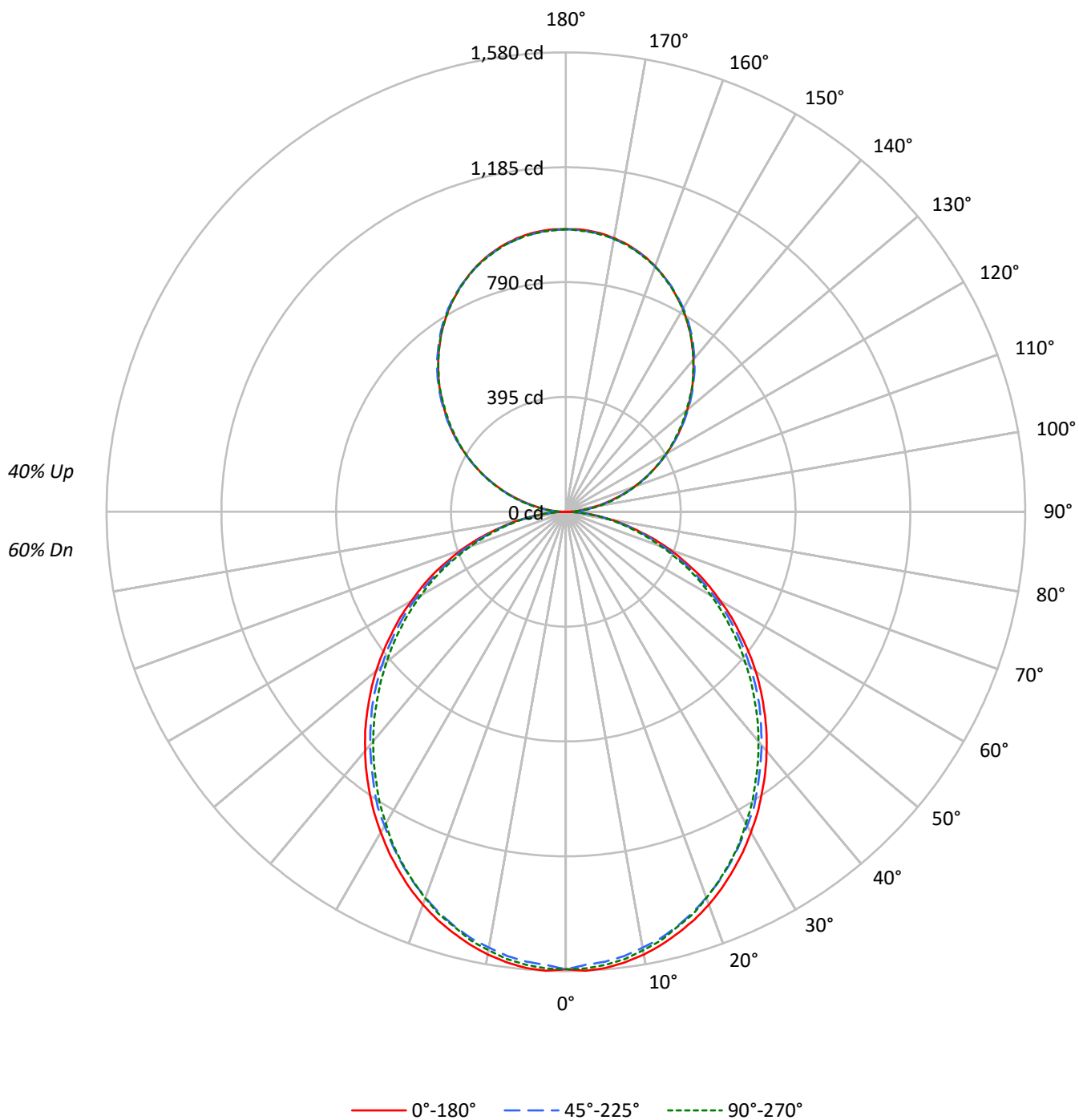
Lumens per Lamp: N/A
Luminaire Lumens: 6790.0 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 67.9
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
RCR																	
0	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66
1	100	96	92	88	93	90	86	83	78	75	73	68	66	64	58	57	55
2	91	83	77	72	85	78	73	68	68	64	61	59	56	53	51	49	47
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	40
4	76	65	57	51	71	61	54	48	54	48	43	47	42	39	40	37	34
5	70	58	50	43	65	54	47	41	48	42	37	42	37	34	36	33	30
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16937	16937	16937
5°	16979	16352	16328
10°	16828	15798	15636
15°	16593	15222	14883
20°	16326	14585	14137
25°	15978	13910	13339
30°	15598	13212	12499
35°	15200	12498	11666
40°	14784	11751	10845
45°	14325	11021	9988
50°	13859	10209	9129
55°	13262	9362	8257
60°	12647	8428	7329
65°	12067	7417	6363
70°	11235	6297	5234
75°	10035	4987	4062
80°	8665	3505	2873
85°	6762	1882	1438

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14325 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	2.2
10°-20°	418.8	6.2
20°-30°	618.6	9.1
30°-40°	722.5	10.6
40°-50°	726.3	10.7
50°-60°	638.0	9.4
60°-70°	475.2	7.0
70°-80°	270.4	4.0
80°-90°	78.9	1.2
90°-100°	62.6	0.9
100°-110°	189.4	2.8
110°-120°	322.4	4.7
120°-130°	424.1	6.2
130°-140°	476.7	7.0
140°-150°	468.7	6.9
150°-160°	394.6	5.8
160°-170°	262.7	3.9
170°-180°	92.0	1.4
0°-30°	1185.8	17.5
0°-40°	1908.2	28.1
0°-60°	3272.5	48.2
0°-90°	4097.0	60.3
90°-120°	574.3	8.5
90°-150°	1943.8	28.6
90°-180°	2693.0	39.7
0°-180°	6790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1575	1568	1553	1567	1564	149
15°	1499	1494	1476	1487	1479	423
25°	1361	1353	1335	1337	1333	627
35°	1177	1169	1151	1143	1136	736
45°	965	959	942	925	919	745
55°	732	731	713	698	691	656
65°	499	492	479	468	464	493
75°	264	258	254	248	244	282
85°	70	68	68	65	65	75
90°	1	8	18	21	23	8
95°	45	50	56	60	60	50
105°	172	173	180	180	182	184
115°	324	327	325	326	325	321
125°	475	477	476	473	470	424
135°	616	621	620	617	615	475
145°	747	749	751	750	747	467
155°	856	856	857	860	854	394
165°	932	930	930	934	929	263
175°	970	967	967	971	966	92
180°	972	972	972	972	972	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1573.5	1573.5	1573.5	1573.5	1573.5
2.5°	1580.2	1574.8	1559.9	1573.5	1572.1
5°	1574.8	1568.0	1553.2	1566.7	1564.0
7.5°	1562.6	1555.9	1541.0	1553.2	1551.8
10°	1546.4	1539.6	1522.0	1534.2	1531.5
12.5°	1524.7	1519.3	1503.1	1511.2	1509.9
15°	1499.0	1493.6	1476.0	1486.9	1478.7
17.5°	1470.6	1463.9	1446.3	1454.4	1451.7
20°	1438.2	1430.0	1412.5	1417.9	1413.8
22.5°	1401.6	1393.5	1375.9	1380.0	1374.6
25°	1361.0	1352.9	1335.3	1336.7	1332.6
27.5°	1319.1	1311.0	1292.0	1293.4	1289.3
30°	1273.1	1266.3	1247.4	1247.4	1237.9
32.5°	1227.1	1217.6	1204.1	1194.6	1190.6
35°	1177.0	1168.9	1151.3	1143.2	1136.5
37.5°	1127.0	1116.2	1098.6	1089.1	1085.0
40°	1074.2	1066.1	1047.2	1036.3	1030.9
42.5°	1021.5	1012.0	993.0	982.2	976.8
45°	964.6	959.2	941.6	925.4	918.6
47.5°	909.2	901.0	884.8	868.6	863.2
50°	852.3	845.6	828.0	813.1	805.0
52.5°	792.8	788.8	769.8	757.6	749.5
55°	731.9	730.6	713.0	698.1	691.3
57.5°	675.1	669.7	656.2	642.6	634.5
60°	612.9	611.5	595.3	583.1	576.3
62.5°	557.4	553.3	537.1	524.9	520.9
65°	499.2	492.5	478.9	468.1	464.1
67.5°	437.0	431.6	420.8	411.3	405.9
70°	381.5	373.4	365.3	355.8	349.1
72.5°	323.3	317.9	308.5	300.3	297.6
75°	263.8	258.4	254.4	247.6	243.5
77.5°	211.1	208.4	202.9	197.5	197.5
80°	159.6	155.6	152.9	151.5	151.5
82.5°	109.6	109.6	109.6	106.9	105.5
85°	70.4	67.6	67.6	64.9	64.9
87.5°	35.2	31.1	29.8	28.4	28.4
90°	0.8	8.4	18.3	21.4	22.9
92.5°	22.9	27.5	32.1	34.4	32.8
95°	45.0	50.4	56.5	59.6	59.6
97.5°	74.1	77.9	82.5	86.3	85.5
100°	103.8	108.4	112.2	114.5	116.0
102.5°	138.2	140.5	145.8	148.1	147.3
105°	171.8	173.3	180.2	180.2	181.7
107.5°	211.5	212.2	215.3	217.6	216.8
110°	248.1	249.7	251.2	254.2	252.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	286.3	287.1	287.1	290.9	290.9
115°	324.5	326.8	325.2	326.0	325.2
117.5°	363.4	364.2	362.6	362.6	360.4
120°	399.3	403.9	400.1	399.3	397.8
122.5°	436.7	439.8	438.2	435.9	433.7
125°	474.9	477.2	475.6	472.6	469.5
127.5°	510.0	514.6	513.1	508.5	505.4
130°	545.1	551.2	548.9	545.9	540.5
132.5°	580.2	586.3	584.8	581.0	577.2
135°	616.1	620.7	619.9	616.9	615.4
137.5°	648.9	652.8	655.1	651.2	648.9
140°	683.3	687.1	687.9	687.1	681.8
142.5°	714.6	718.4	720.0	719.2	715.4
145°	747.4	749.0	751.3	750.5	747.4
147.5°	775.7	778.7	781.0	781.0	776.4
150°	805.5	807.0	808.5	808.5	803.9
152.5°	829.9	832.2	832.9	834.5	830.7
155°	855.8	855.8	856.6	859.7	854.3
157.5°	878.0	877.2	878.0	881.0	876.5
160°	898.6	897.1	897.1	900.9	897.8
162.5°	916.9	914.6	915.4	919.2	913.9
165°	932.2	929.9	929.9	934.5	929.1
167.5°	945.2	942.1	942.9	947.5	942.9
170°	955.9	952.8	952.8	958.2	952.8
172.5°	964.3	961.2	961.2	965.8	960.4
175°	969.6	966.6	966.6	971.1	965.8
177.5°	972.7	969.6	969.6	974.2	968.8
180°	971.9	971.9	971.9	971.9	971.9

(END OF REPORT)