

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: P1008502

Luminaire Tested: S122RDIP-B865D1080UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008502
REPORT IS A COMBINATION OF REPORTS P988632 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B865D1080UB2750-4F0-XX-W2A-F_4000K
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

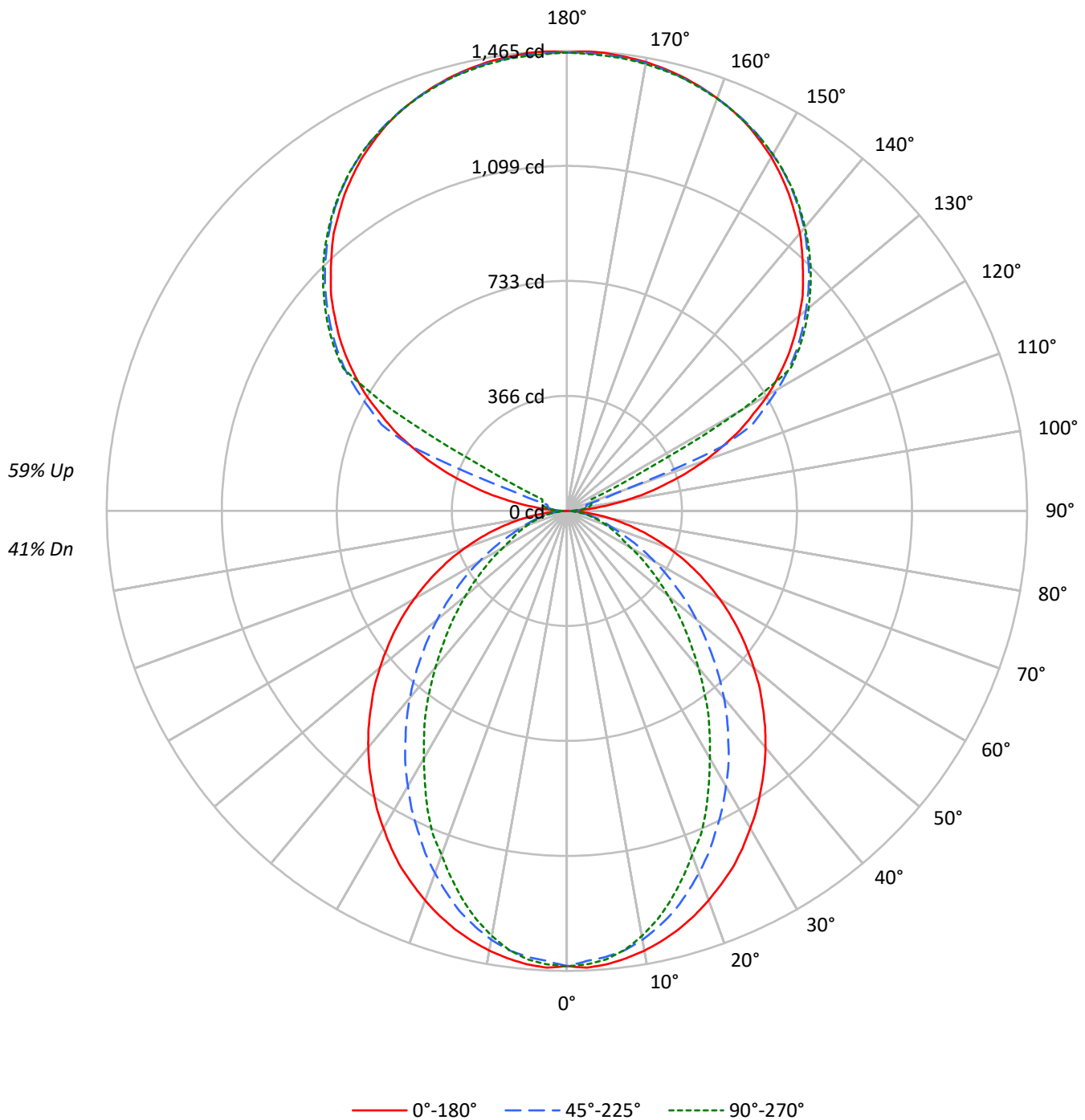
Lumens per Lamp: N/A
Luminaire Lumens: 7263.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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	105	105	105	105	96	96	96	96	78	78	78	63	63	63	48	48	48
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41
2	88	81	75	70	80	74	69	65	61	58	54	49	47	45	38	37	35
3	80	71	64	59	73	65	59	55	54	50	46	44	41	38	34	32	31
4	74	63	56	50	67	58	52	47	48	44	40	39	36	33	31	29	27
5	68	57	49	43	62	52	45	40	43	38	34	35	32	29	28	25	23
6	62	51	43	37	57	47	40	35	39	34	30	32	28	25	26	23	21
7	58	46	38	33	53	42	36	31	36	30	27	29	26	23	23	21	19
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	20	17	15
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22945	22945	22945
5°	22982	21828	21666
10°	22755	20703	20020
15°	22442	19374	18143
20°	22028	17863	16179
25°	21605	16312	14383
30°	21034	14804	12420
35°	20477	13280	10736
40°	19911	11786	9001
45°	19252	10242	7487
50°	18569	8753	6096
55°	17861	7265	4840
60°	17035	5811	3662
65°	16086	4429	2976
70°	14941	3214	2367
75°	13504	2450	1807
80°	11417	1660	1213
85°	7967	759	586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19252 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	1.9
10°-20°	372.9	5.1
20°-30°	523.6	7.2
30°-40°	570.7	7.9
40°-50°	524.5	7.2
50°-60°	412.0	5.7
60°-70°	268.1	3.7
70°-80°	138.0	1.9
80°-90°	37.8	0.5
90°-100°	48.1	0.7
100°-110°	179.4	2.5
110°-120°	475.9	6.6
120°-130°	789.3	10.9
130°-140°	838.4	11.5
140°-150°	779.2	10.7
150°-160°	626.5	8.6
160°-170°	403.7	5.6
170°-180°	138.9	1.9
0°-30°	1032.3	14.2
0°-40°	1603.1	22.1
0°-60°	2539.6	35.0
0°-90°	2983.6	41.1
90°-120°	703.5	9.7
90°-150°	3110.3	42.8
90°-180°	4279.0	58.9
0°-180°	7263.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1450	1443	1426	1438	1434	137
15°	1379	1364	1320	1295	1282	388
25°	1251	1209	1123	1069	1049	576
35°	1078	1011	896	813	784	675
45°	882	794	656	563	531	681
55°	670	568	426	348	323	599
65°	452	346	228	184	180	449
75°	241	150	105	96	94	255
85°	56	29	25	25	25	65
90°	1	13	21	26	28	7
95°	69	34	41	46	45	81
105°	321	353	64	76	80	343
115°	607	625	652	163	87	598
125°	859	872	892	900	903	766
135°	1063	1080	1089	1100	1097	821
145°	1233	1232	1250	1257	1252	771
155°	1357	1348	1360	1367	1358	625
165°	1430	1424	1427	1434	1427	404
175°	1463	1456	1458	1465	1454	139
180°	1460	1460	1460	1460	1460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1449.5	1449.5	1449.5	1449.5	1449.5
2.5°	1456.0	1449.5	1435.0	1448.1	1445.5
5°	1449.5	1442.9	1425.8	1437.7	1433.7
7.5°	1437.7	1429.8	1411.4	1416.7	1410.1
10°	1421.9	1412.7	1386.5	1382.6	1374.7
12.5°	1402.2	1390.4	1355.0	1347.1	1332.7
15°	1378.6	1364.2	1319.6	1294.7	1281.6
17.5°	1351.1	1330.1	1275.0	1246.1	1225.2
20°	1319.6	1293.4	1227.8	1195.0	1166.1
22.5°	1285.5	1255.3	1179.2	1134.6	1115.0
25°	1251.4	1209.4	1122.8	1069.1	1049.4
27.5°	1210.7	1166.1	1070.4	1008.7	978.5
30°	1167.4	1117.6	1012.7	945.8	910.3
32.5°	1125.5	1065.1	957.6	878.9	846.1
35°	1078.2	1011.3	895.9	813.3	784.4
37.5°	1032.3	960.2	838.2	747.7	714.9
40°	983.8	905.1	777.9	684.7	650.6
42.5°	934.0	850.0	717.5	620.4	587.7
45°	881.5	793.6	655.9	562.7	531.2
47.5°	831.6	738.5	596.8	503.7	474.8
50°	776.5	683.4	539.1	448.6	421.1
52.5°	722.8	624.4	484.0	397.5	372.5
55°	670.3	568.0	426.3	347.6	322.7
57.5°	616.5	511.6	375.2	301.7	280.7
60°	561.4	456.5	321.4	254.5	233.5
62.5°	507.6	402.7	275.5	212.5	202.0
65°	452.5	346.3	228.2	183.6	179.7
67.5°	400.1	293.8	183.6	161.3	157.4
70°	345.0	242.7	152.2	139.0	133.8
72.5°	292.5	195.4	127.2	116.7	114.1
75°	241.4	149.5	104.9	95.8	94.4
77.5°	190.2	106.2	82.6	77.4	74.8
80°	143.0	76.1	63.0	57.7	57.7
82.5°	99.7	51.2	43.3	40.7	40.7
85°	56.4	28.9	24.9	24.9	24.9
87.5°	21.0	10.5	10.5	9.2	9.2
90°	1.1	12.7	21.1	26.4	28.5
92.5°	26.4	22.2	25.3	27.5	28.5
95°	68.7	33.8	41.2	46.5	45.4
97.5°	123.6	37.0	53.9	57.0	58.1
100°	187.0	42.2	60.2	68.7	70.8
102.5°	256.7	254.6	62.3	73.9	77.1
105°	321.1	352.8	64.4	76.0	80.3
107.5°	396.1	422.5	66.5	78.2	82.4
110°	467.9	490.1	184.8	79.2	83.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	535.5	554.5	536.6	81.3	84.5
115°	607.3	625.3	651.7	162.7	86.6
117.5°	669.7	690.8	708.7	557.7	281.0
120°	739.4	755.2	774.2	786.9	644.3
122.5°	798.5	815.4	836.5	842.9	843.9
125°	858.7	872.5	892.5	899.9	903.1
127.5°	913.7	928.4	944.3	954.8	955.9
130°	965.4	982.3	993.9	1005.5	1004.5
132.5°	1018.2	1032.0	1043.6	1053.1	1052.0
135°	1062.6	1079.5	1089.0	1099.6	1097.4
137.5°	1109.1	1121.7	1132.3	1142.9	1139.7
140°	1154.5	1162.9	1174.5	1184.1	1178.8
142.5°	1192.5	1199.9	1213.6	1222.1	1216.8
145°	1232.6	1231.6	1249.5	1256.9	1251.7
147.5°	1267.5	1264.3	1282.3	1287.6	1283.3
150°	1301.3	1293.9	1310.8	1317.1	1311.9
152.5°	1329.8	1321.4	1337.2	1343.5	1336.2
155°	1357.3	1347.8	1360.4	1366.8	1358.3
157.5°	1379.5	1371.0	1380.5	1387.9	1379.5
160°	1398.5	1392.1	1398.5	1404.8	1397.4
162.5°	1415.4	1409.0	1414.3	1421.7	1412.2
165°	1430.2	1423.8	1427.0	1434.4	1427.0
167.5°	1441.8	1435.4	1438.6	1446.0	1436.5
170°	1451.3	1444.9	1447.1	1454.5	1444.9
172.5°	1457.6	1451.3	1453.4	1460.8	1451.3
175°	1462.9	1455.5	1457.6	1465.0	1454.5
177.5°	1465.0	1457.6	1458.7	1466.1	1456.6
180°	1459.7	1459.7	1459.7	1459.7	1459.7

(END OF REPORT)