

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: P1008402

Luminaire Tested: S122RDIP-B485D1080UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008402
REPORT IS A COMBINATION OF REPORTS P988232 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B485D1080UB2750-4F0-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

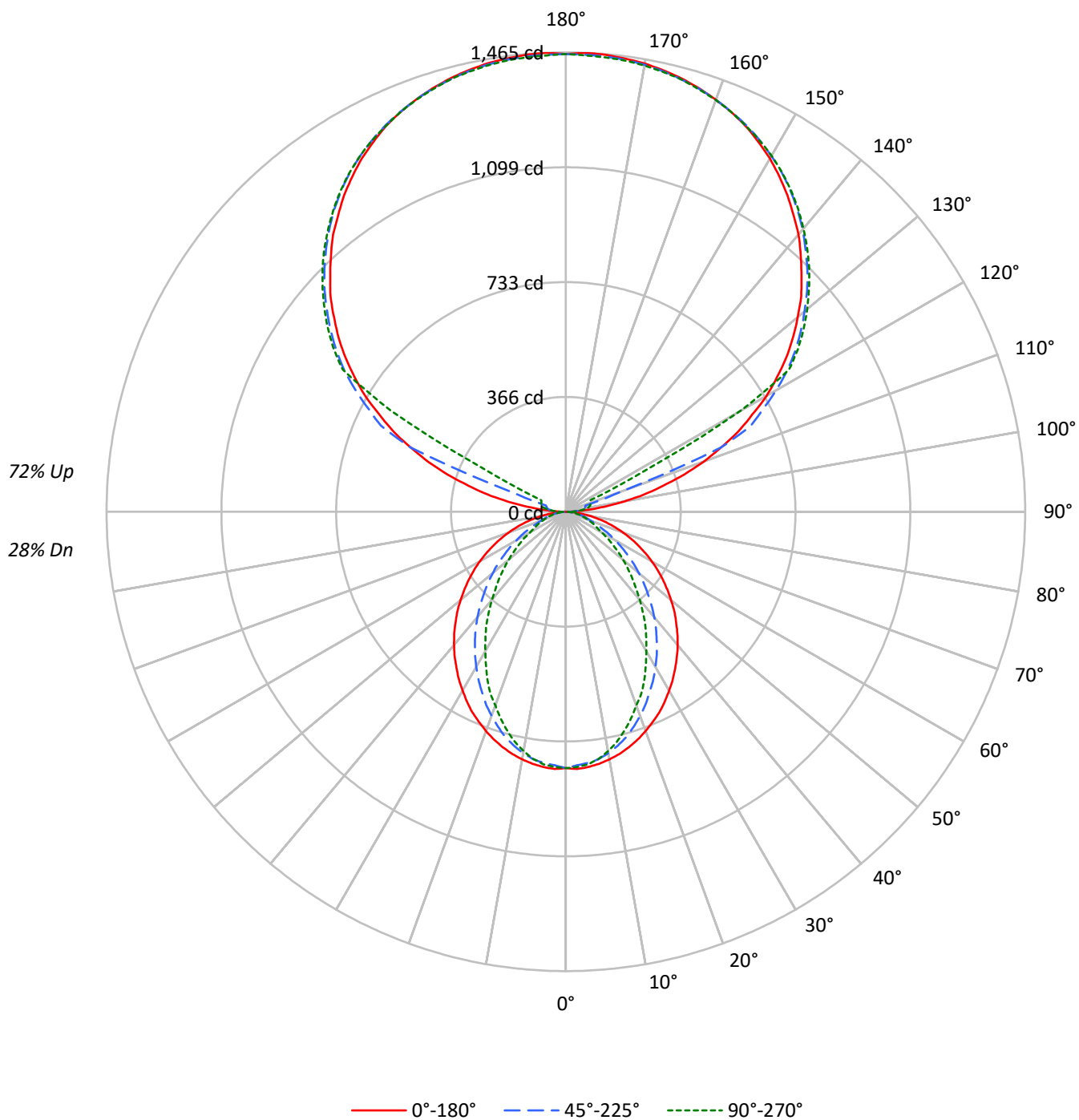
Lumens per Lamp: N/A
Luminaire Lumens: 5963.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1008402

CATALOG NUMBER: S122RDIP-B485D1080UB2750-4F0-XX-W2A-F_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1008402

CATALOG NUMBER: S122RDIP-B485D1080UB2750-4F0-XX-W2A-F_4000K

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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	93	89	85	82	83	80	77	74	63	61	59	47	46	44	32	32	31
2	85	78	72	67	76	70	65	61	55	52	49	41	39	38	29	28	26
3	78	69	62	56	69	62	56	51	49	45	42	37	34	32	26	24	23
4	71	61	54	48	63	55	49	44	44	39	36	33	30	28	23	21	20
5	65	54	47	41	58	49	42	37	39	34	31	30	26	24	21	19	17
6	60	49	41	35	54	44	37	33	35	30	27	27	24	21	19	17	15
7	56	44	36	31	50	40	33	29	32	27	24	24	21	19	17	15	14
8	51	40	32	27	46	36	30	25	29	24	21	22	19	17	16	14	12
9	48	36	29	24	43	33	27	22	27	22	19	21	17	15	15	13	11
10	45	33	26	22	40	30	24	20	24	20	17	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12939	12939	12939
5°	12960	12308	12218
10°	12831	11675	11289
15°	12655	10925	10231
20°	12421	10072	9124
25°	12184	9199	8111
30°	11861	8347	7004
35°	11547	7489	6054
40°	11229	6645	5076
45°	10857	5774	4223
50°	10472	4936	3437
55°	10072	4097	2730
60°	9607	3276	2065
65°	9072	2498	1678
70°	8423	1812	1334
75°	7613	1383	1020
80°	6435	936	683
85°	4492	430	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10857 cd/sqm

TEST NUMBER: P1008402

CATALOG NUMBER: S122RDIP-B485D1080UB2750-4F0-XX-W2A-F_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	1.3
10°-20°	210.3	3.5
20°-30°	295.2	5.0
30°-40°	321.8	5.4
40°-50°	295.8	5.0
50°-60°	232.3	3.9
60°-70°	151.2	2.5
70°-80°	77.8	1.3
80°-90°	22.4	0.4
90°-100°	48.1	0.8
100°-110°	179.4	3.0
110°-120°	475.9	8.0
120°-130°	789.3	13.2
130°-140°	838.4	14.1
140°-150°	779.2	13.1
150°-160°	626.5	10.5
160°-170°	403.7	6.8
170°-180°	138.9	2.3
0°-30°	582.1	9.8
0°-40°	904.0	15.2
0°-60°	1432.1	24.0
0°-90°	1683.6	28.2
90°-120°	703.5	11.8
90°-150°	3110.3	52.2
90°-180°	4279.0	71.8
0°-180°	5963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	817	814	804	811	808	78
15°	777	769	744	730	723	219
25°	706	682	633	603	592	325
35°	608	570	505	459	442	381
45°	497	448	370	317	300	384
55°	378	320	240	196	182	338
65°	255	195	129	104	101	253
75°	136	84	59	54	53	144
85°	32	16	14	14	14	36
90°	1	13	21	26	28	6
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	

TEST NUMBER: P1008402

CATALOG NUMBER: S122RDIP-B485D1080UB2750-4F0-XX-W2A-F_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	817.4	817.4	817.4	817.4	817.4
2.5°	821.1	817.4	809.2	816.6	815.1
5°	817.4	813.7	804.0	810.7	808.5
7.5°	810.7	806.3	795.9	798.9	795.2
10°	801.8	796.6	781.9	779.6	775.2
12.5°	790.7	784.1	764.1	759.7	751.5
15°	777.4	769.3	744.1	730.1	722.7
17.5°	761.9	750.0	719.0	702.7	690.9
20°	744.1	729.3	692.3	673.9	657.6
22.5°	724.9	707.9	665.0	639.8	628.7
25°	705.7	682.0	633.2	602.8	591.8
27.5°	682.7	657.6	603.6	568.8	551.8
30°	658.3	630.2	571.0	533.3	513.3
32.5°	634.7	600.6	540.0	495.6	477.1
35°	608.0	570.3	505.2	458.6	442.3
37.5°	582.1	541.5	472.7	421.6	403.1
40°	554.8	510.4	438.6	386.1	366.9
42.5°	526.7	479.3	404.6	349.9	331.4
45°	497.1	447.5	369.8	317.3	299.6
47.5°	469.0	416.4	336.6	284.0	267.8
50°	437.9	385.4	304.0	253.0	237.4
52.5°	407.6	352.1	272.9	224.1	210.1
55°	378.0	320.3	240.4	196.0	182.0
57.5°	347.7	288.5	211.6	170.1	158.3
60°	316.6	257.4	181.2	143.5	131.7
62.5°	286.3	227.1	155.3	119.8	113.9
65°	255.2	195.3	128.7	103.6	101.3
67.5°	225.6	165.7	103.6	91.0	88.8
70°	194.5	136.8	85.8	78.4	75.4
72.5°	165.0	110.2	71.7	65.8	64.4
75°	136.1	84.3	59.2	54.0	53.3
77.5°	107.3	59.9	46.6	43.6	42.2
80°	80.6	42.9	35.5	32.5	32.5
82.5°	56.2	28.8	24.4	22.9	22.9
85°	31.8	16.3	14.1	14.1	14.1
87.5°	11.8	5.9	5.9	5.2	5.2
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

TEST NUMBER: P1008402

CATALOG NUMBER: S122RDIP-B485D1080UB2750-4F0-XX-W2A-F_4000K

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)