

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: P1009741

Luminaire Tested: S122RDIP-B1005D530UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009741
REPORT IS A COMBINATION OF REPORTS P987937 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B1005D530UB50-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

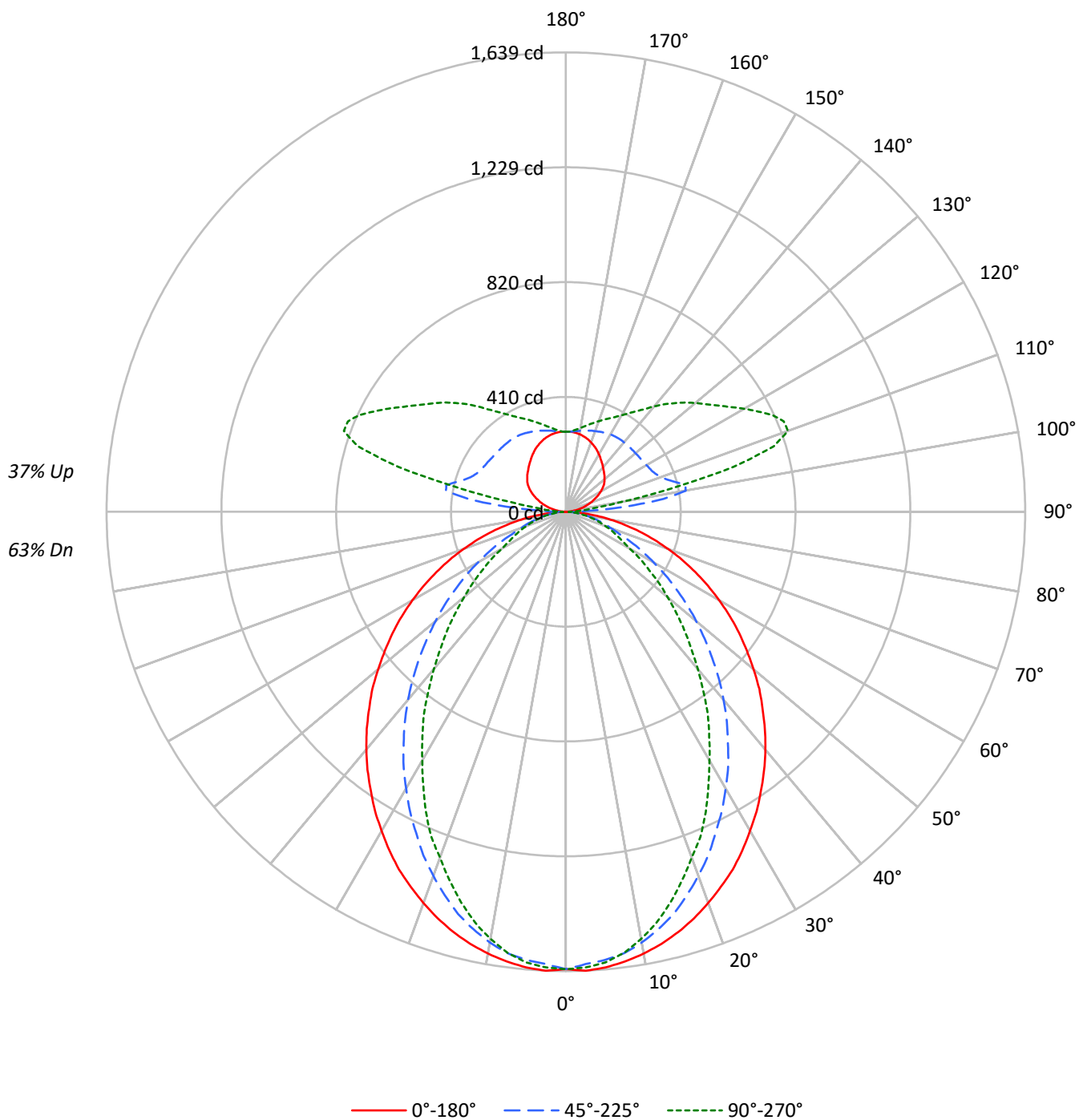
Lumens per Lamp: N/A
Luminaire Lumens: 5350.2 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	103	103	103	103	90	90	90	79	79	79	68	68	68
1	101	97	93	90	95	91	88	85	80	78	76	70	68	67	61	60	59
2	93	85	80	75	87	80	75	71	71	67	64	62	59	57	54	52	50
3	85	76	69	63	79	71	65	60	63	58	54	56	52	49	49	46	43
4	78	67	60	54	73	64	57	51	57	51	47	50	46	42	44	41	38
5	72	61	53	47	67	57	50	45	51	45	41	45	41	37	40	36	33
6	67	55	47	41	62	52	44	39	46	40	36	41	36	33	36	33	30
7	62	50	42	36	58	47	40	35	42	36	32	38	33	29	33	30	27
8	57	45	38	32	54	43	36	31	39	33	29	35	30	26	31	27	24
9	54	42	34	29	50	40	33	28	36	30	26	32	27	24	29	25	22
10	50	38	31	26	47	36	30	25	33	27	24	30	25	22	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25830	25830	25830
5°	25872	24574	24392
10°	25617	23307	22538
15°	25266	21811	20425
20°	24800	20110	18215
25°	24322	18365	16192
30°	23681	16665	13984
35°	23054	14951	12087
40°	22417	13268	10134
45°	21674	11530	8430
50°	20905	9854	6862
55°	20107	8179	5449
60°	19178	6541	4123
65°	18112	4988	3351
70°	16820	3618	2664
75°	15199	2759	2035
80°	12854	1868	1367
85°	8970	857	661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	2.9
10°-20°	419.8	7.8
20°-30°	589.4	11.0
30°-40°	642.5	12.0
40°-50°	590.5	11.0
50°-60°	463.8	8.7
60°-70°	301.9	5.6
70°-80°	155.4	2.9
80°-90°	41.5	0.8
90°-100°	115.8	2.2
100°-110°	391.6	7.3
110°-120°	411.7	7.7
120°-130°	338.5	6.3
130°-140°	272.0	5.1
140°-150°	205.5	3.8
150°-160°	144.5	2.7
160°-170°	85.1	1.6
170°-180°	27.7	0.5
0°-30°	1162.2	21.7
0°-40°	1804.7	33.7
0°-60°	2859.0	53.4
0°-90°	3357.8	62.8
90°-120°	919.2	17.2
90°-150°	1735.2	32.4
90°-180°	1992.0	37.2
0°-180°	5350.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1632	1624	1605	1618	1614	155
15°	1552	1536	1486	1458	1443	437
25°	1409	1362	1264	1204	1181	648
35°	1214	1139	1009	916	883	760
45°	992	893	738	634	598	766
55°	755	639	480	391	363	674
65°	510	390	257	207	202	505
75°	272	168	118	108	106	287
85°	64	32	28	28	28	73
90°	0	7	19	18	18	4
95°	19	47	215	81	63	20
105°	67	101	407	728	619	71
115°	118	149	341	703	815	117
125°	165	195	328	570	661	147
135°	193	231	324	479	548	149
145°	221	254	322	400	438	139
155°	251	271	313	354	368	116
165°	274	282	300	318	323	77
175°	285	286	288	292	291	27
180°	286	286	286	286	286	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.8	1631.8	1631.8	1631.8	1631.8
2.5°	1639.2	1631.8	1615.6	1630.3	1627.4
5°	1631.8	1624.4	1605.2	1618.5	1614.1
7.5°	1618.5	1609.6	1589.0	1594.9	1587.5
10°	1600.8	1590.4	1560.9	1556.5	1547.6
12.5°	1578.6	1565.3	1525.5	1516.6	1500.4
15°	1552.1	1535.8	1485.6	1457.5	1442.8
17.5°	1521.0	1497.4	1435.4	1402.9	1379.3
20°	1485.6	1456.1	1382.2	1345.3	1312.8
22.5°	1447.2	1413.2	1327.6	1277.4	1255.2
25°	1408.8	1361.6	1264.1	1203.5	1181.4
27.5°	1363.0	1312.8	1205.0	1135.6	1101.6
30°	1314.3	1258.2	1140.0	1064.7	1024.9
32.5°	1267.0	1199.1	1078.0	989.4	952.5
35°	1213.9	1138.6	1008.6	915.6	883.1
37.5°	1162.2	1081.0	943.6	841.7	804.8
40°	1107.6	1019.0	875.7	770.9	732.5
42.5°	1051.4	956.9	807.8	698.5	661.6
45°	992.4	893.4	738.4	633.5	598.1
47.5°	936.3	831.4	671.9	567.1	534.6
50°	874.2	769.4	606.9	505.0	474.0
52.5°	813.7	702.9	544.9	447.5	419.4
55°	754.6	639.4	479.9	391.3	363.3
57.5°	694.1	575.9	422.3	339.7	316.0
60°	632.0	513.9	361.8	286.5	262.9
62.5°	571.5	453.4	310.1	239.2	227.4
65°	509.5	389.9	257.0	206.7	202.3
67.5°	450.4	330.8	206.7	181.6	177.2
70°	388.4	273.2	171.3	156.5	150.6
72.5°	329.3	220.0	143.2	131.4	128.5
75°	271.7	168.3	118.1	107.8	106.3
77.5°	214.1	119.6	93.0	87.1	84.2
80°	161.0	85.7	70.9	65.0	65.0
82.5°	112.2	57.6	48.7	45.8	45.8
85°	63.5	32.5	28.1	28.1	28.1
87.5°	23.6	11.8	11.8	10.3	10.3
90°	0.5	7.4	18.7	17.8	18.1
92.5°	8.2	26.1	84.6	39.0	33.5
95°	19.2	47.3	215.4	81.4	62.7
97.5°	28.6	62.4	351.2	163.2	105.0
100°	42.3	76.4	434.2	325.0	196.7
102.5°	55.0	89.0	436.9	549.6	383.6
105°	67.0	101.1	407.2	727.9	619.4
107.5°	80.2	113.2	379.8	792.5	778.2
110°	93.4	125.6	361.1	782.0	843.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.5	137.4	349.0	746.6	841.9
115°	118.2	149.2	340.7	703.2	815.0
117.5°	131.3	161.0	336.3	661.7	774.3
120°	143.4	172.6	332.5	624.6	735.3
122.5°	155.0	184.4	330.3	595.8	694.7
125°	164.9	195.1	327.5	569.6	661.1
127.5°	173.1	205.2	325.9	547.4	629.8
130°	180.3	214.3	324.8	524.8	604.0
132.5°	186.9	223.1	324.2	501.4	577.1
135°	193.4	230.8	323.7	478.7	547.9
137.5°	199.5	237.4	323.7	455.6	519.9
140°	206.6	243.4	323.1	435.3	490.8
142.5°	213.8	248.4	323.1	415.8	461.6
145°	220.9	253.9	322.0	399.8	437.5
147.5°	228.6	258.3	320.4	385.8	416.0
150°	236.3	262.6	318.8	373.8	397.3
152.5°	244.0	267.1	316.0	363.5	381.4
155°	251.2	271.2	312.7	353.6	367.7
157.5°	257.2	274.5	309.4	344.3	355.6
160°	263.2	277.8	306.1	335.0	344.0
162.5°	269.3	280.3	303.4	326.2	333.0
165°	273.7	282.0	299.5	317.7	322.6
167.5°	277.5	283.6	296.2	310.0	312.7
170°	281.4	284.4	293.5	302.8	303.9
172.5°	283.6	285.2	290.2	296.5	296.8
175°	285.2	285.5	288.0	291.6	290.7
177.5°	286.3	285.8	285.8	288.0	286.3
180°	285.8	285.8	285.8	285.8	285.8

(END OF REPORT)