

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: P1010303

Luminaire Tested: S122RDIP-B865D330UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010303
REPORT IS A COMBINATION OF REPORTS P988698 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B865D330UB50-4F0-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

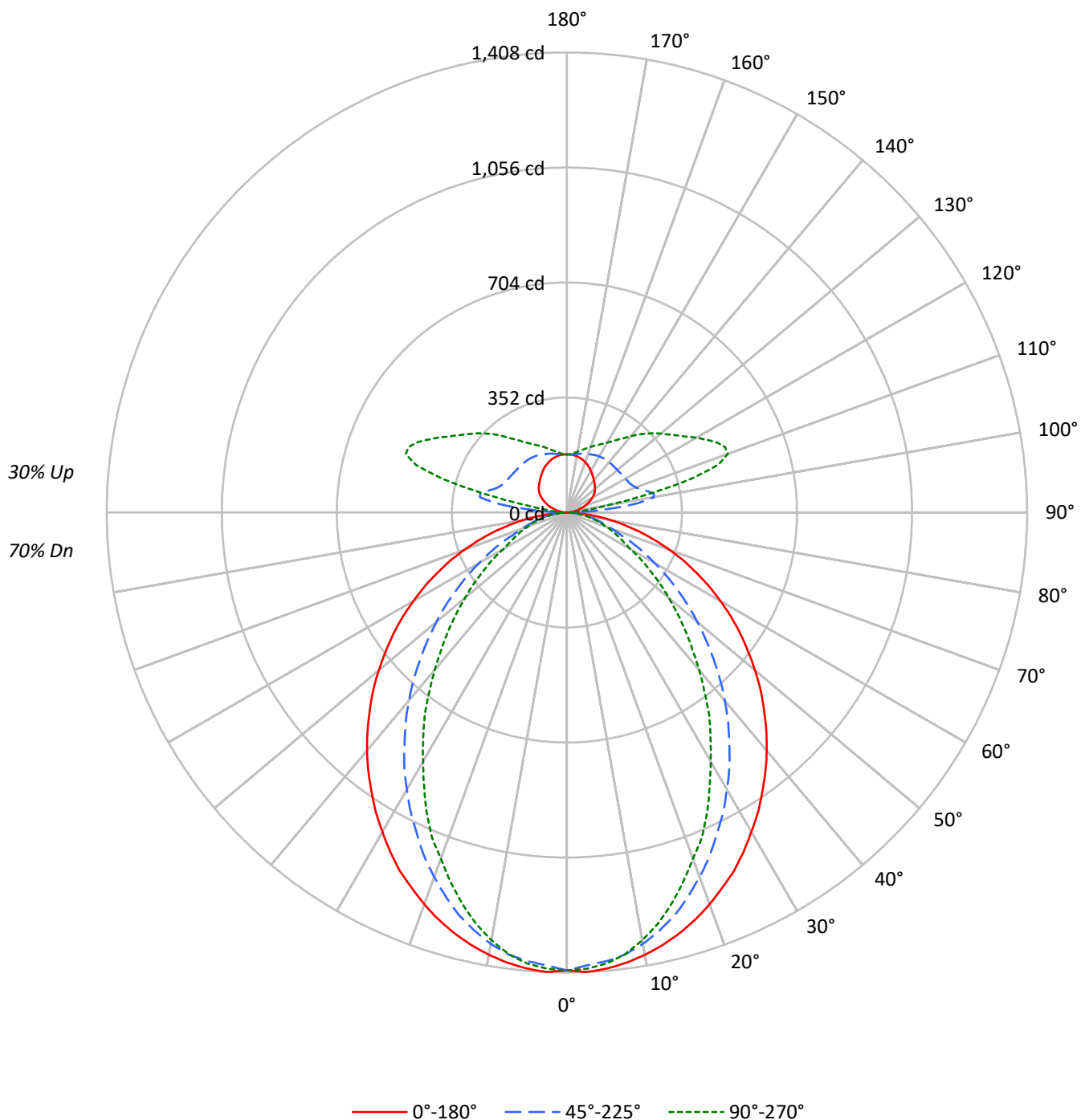
Lumens per Lamp: N/A
Luminaire Lumens: 4122.4 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	103	99	95	92	97	94	90	87	84	81	79	75	73	71	67	66	64
2	94	87	81	76	89	83	77	73	74	70	67	67	64	61	60	57	55
3	87	77	70	64	82	73	67	62	66	61	57	60	56	52	54	50	48
4	80	69	61	55	75	66	59	53	59	54	49	54	49	45	48	45	42
5	73	62	54	48	69	59	52	46	54	48	43	49	44	40	44	40	37
6	68	56	48	42	64	53	46	41	49	43	38	44	39	35	40	36	33
7	63	51	43	37	60	49	41	36	44	38	34	40	35	32	37	33	29
8	59	46	39	33	56	44	37	32	41	35	30	37	32	29	34	30	27
9	55	43	35	30	52	41	34	29	38	32	28	34	29	26	32	27	24
10	51	39	32	27	49	38	31	27	35	29	25	32	27	24	29	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22182	22182	22182
5°	22218	21103	20947
10°	21999	20016	19354
15°	21696	18731	17540
20°	21297	17270	15642
25°	20886	15770	13905
30°	20337	14311	12008
35°	19797	12840	10380
40°	19249	11394	8702
45°	18612	9901	7239
50°	17954	8462	5894
55°	17267	7025	4679
60°	16471	5617	3539
65°	15553	4283	2877
70°	14443	3107	2289
75°	13051	2371	1748
80°	11034	1605	1173
85°	7698	735	567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18612 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.2
10°-20°	360.5	8.7
20°-30°	506.2	12.3
30°-40°	551.8	13.4
40°-50°	507.1	12.3
50°-60°	398.3	9.7
60°-70°	259.2	6.3
70°-80°	133.5	3.2
80°-90°	35.2	0.9
90°-100°	72.1	1.7
100°-110°	243.6	5.9
110°-120°	256.1	6.2
120°-130°	210.5	5.1
130°-140°	169.2	4.1
140°-150°	127.8	3.1
150°-160°	89.9	2.2
160°-170°	52.9	1.3
170°-180°	17.2	0.4
0°-30°	998.1	24.2
0°-40°	1549.8	37.6
0°-60°	2455.2	59.6
0°-90°	2883.1	69.9
90°-120°	571.7	13.9
90°-150°	1079.3	26.2
90°-180°	1239.0	30.1
0°-180°	4122.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1401	1395	1378	1390	1386	133
15°	1333	1319	1276	1252	1239	376
25°	1210	1169	1086	1034	1014	556
35°	1042	978	866	786	758	652
45°	852	767	634	544	514	658
55°	648	549	412	336	312	579
65°	438	335	221	178	174	434
75°	233	145	102	93	91	247
85°	54	28	24	24	24	63
90°	0	5	12	11	11	4
95°	12	29	134	51	39	12
105°	42	63	253	453	385	44
115°	74	93	212	437	507	73
125°	102	121	204	354	411	91
135°	120	144	201	298	341	93
145°	137	158	200	249	272	86
155°	156	169	194	220	229	72
165°	170	175	186	198	201	48
175°	177	178	179	181	181	17
180°	178	178	178	178	178	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1401.3	1401.3	1401.3	1401.3	1401.3
2.5°	1407.7	1401.3	1387.4	1400.1	1397.5
5°	1401.3	1395.0	1378.5	1389.9	1386.1
7.5°	1389.9	1382.3	1364.5	1369.6	1363.3
10°	1374.7	1365.8	1340.5	1336.6	1329.0
12.5°	1355.7	1344.3	1310.0	1302.4	1288.5
15°	1332.8	1318.9	1275.8	1251.7	1239.0
17.5°	1306.2	1285.9	1232.7	1204.8	1184.5
20°	1275.8	1250.4	1187.0	1155.3	1127.4
22.5°	1242.8	1213.6	1140.1	1097.0	1077.9
25°	1209.8	1169.2	1085.5	1033.6	1014.5
27.5°	1170.5	1127.4	1034.8	975.2	946.1
30°	1128.7	1080.5	979.0	914.3	880.1
32.5°	1088.1	1029.8	925.8	849.7	818.0
35°	1042.4	977.8	866.2	786.3	758.4
37.5°	998.0	928.3	810.4	722.9	691.2
40°	951.1	875.0	752.0	662.0	629.0
42.5°	902.9	821.8	693.7	599.8	568.1
45°	852.2	767.2	634.1	544.0	513.6
47.5°	804.0	714.0	577.0	487.0	459.1
50°	750.8	660.7	521.2	433.7	407.1
52.5°	698.8	603.6	468.0	384.3	360.2
55°	648.0	549.1	412.2	336.1	312.0
57.5°	596.0	494.6	362.7	291.7	271.4
60°	542.8	441.3	310.7	246.0	225.7
62.5°	490.8	389.3	266.3	205.4	195.3
65°	437.5	334.8	220.7	177.5	173.7
67.5°	386.8	284.1	177.5	156.0	152.2
70°	333.5	234.6	147.1	134.4	129.4
72.5°	282.8	189.0	123.0	112.9	110.3
75°	233.3	144.6	101.5	92.6	91.3
77.5°	183.9	102.7	79.9	74.8	72.3
80°	138.2	73.6	60.9	55.8	55.8
82.5°	96.4	49.5	41.8	39.3	39.3
85°	54.5	27.9	24.1	24.1	24.1
87.5°	20.3	10.1	10.1	8.9	8.9
90°	0.3	4.6	11.6	11.1	11.3
92.5°	5.1	16.2	52.6	24.2	20.9
95°	12.0	29.4	134.0	50.6	39.0
97.5°	17.8	38.8	218.4	101.6	65.3
100°	26.3	47.5	270.0	202.2	122.4
102.5°	34.2	55.4	271.8	341.8	238.6
105°	41.7	62.9	253.3	452.8	385.2
107.5°	49.9	70.4	236.2	493.0	484.0
110°	58.1	78.2	224.6	486.4	524.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.6	85.4	217.1	464.4	523.7
115°	73.5	92.8	211.9	437.4	506.9
117.5°	81.7	100.2	209.2	411.6	481.6
120°	89.2	107.3	206.8	388.4	457.4
122.5°	96.4	114.6	205.4	370.5	432.1
125°	102.5	121.4	203.7	354.3	411.2
127.5°	107.7	127.6	202.7	340.4	391.7
130°	112.1	133.3	202.0	326.4	375.7
132.5°	116.2	138.8	201.7	311.9	358.9
135°	120.3	143.6	201.3	297.8	340.8
137.5°	124.1	147.6	201.3	283.4	323.4
140°	128.5	151.4	201.0	270.7	305.3
142.5°	133.0	154.5	201.0	258.6	287.1
145°	137.4	158.0	200.3	248.6	272.1
147.5°	142.2	160.6	199.3	240.0	258.8
150°	147.0	163.4	198.3	232.4	247.1
152.5°	151.8	166.2	196.6	226.2	237.2
155°	156.2	168.7	194.5	220.0	228.7
157.5°	160.0	170.8	192.4	214.2	221.2
160°	163.7	172.8	190.4	208.3	214.0
162.5°	167.5	174.4	188.7	202.8	207.1
165°	170.2	175.4	186.3	197.6	200.7
167.5°	172.6	176.4	184.2	192.8	194.5
170°	175.0	176.9	182.5	188.4	189.0
172.5°	176.4	177.4	180.5	184.4	184.6
175°	177.4	177.6	179.1	181.4	180.8
177.5°	178.1	177.8	177.8	179.1	178.1
180°	177.8	177.8	177.8	177.8	177.8

(END OF REPORT)