

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: P1010091

Luminaire Tested: S122RDIP-B485D925UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010091
REPORT IS A COMBINATION OF REPORTS P988411 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B485D925UB40-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

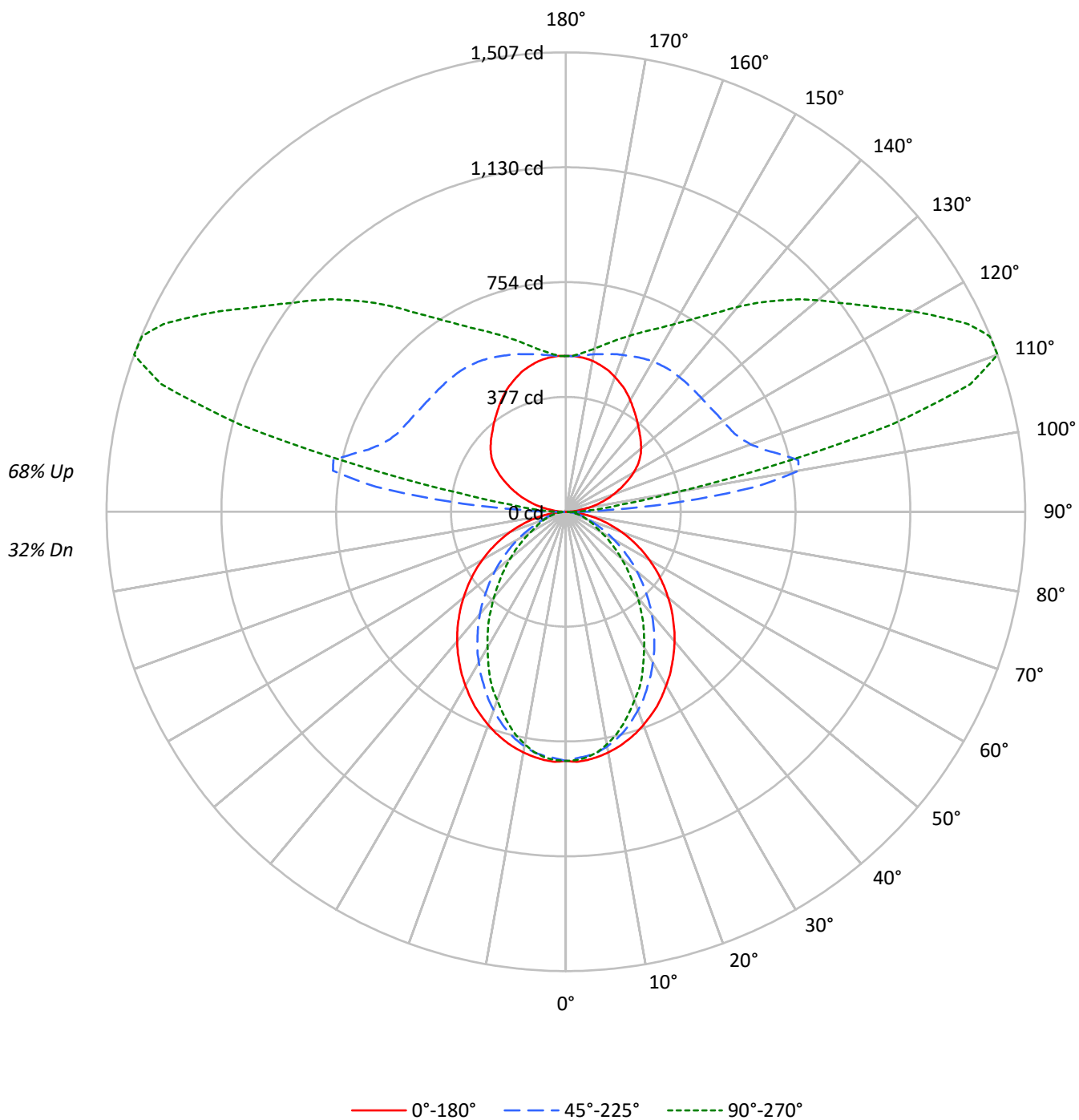
Lumens per Lamp: N/A
Luminaire Lumens: 5246.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40
1	94	90	86	83	85	81	78	75	65	63	61	49	48	47	35	35	34
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	30	29
3	78	70	63	57	70	63	57	52	50	46	43	39	36	34	28	27	25
4	72	62	54	48	65	56	49	45	45	40	37	35	32	29	25	24	22
5	66	55	47	42	59	50	43	38	40	35	32	31	28	25	23	21	19
6	61	49	42	36	55	45	38	33	36	31	28	28	25	22	21	19	17
7	56	45	37	32	51	41	34	29	33	28	24	26	22	20	19	17	15
8	52	40	33	28	47	37	30	26	30	25	22	24	20	18	18	15	14
9	48	37	30	25	44	34	27	23	28	23	19	22	18	16	16	14	12
10	45	34	27	22	41	31	25	21	25	21	18	20	17	14	15	13	11

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	1.5
10°-20°	210.3	4.0
20°-30°	295.2	5.6
30°-40°	321.8	6.1
40°-50°	295.8	5.6
50°-60°	232.3	4.4
60°-70°	151.2	2.9
70°-80°	77.8	1.5
80°-90°	23.1	0.4
90°-100°	207.1	3.9
100°-110°	700.1	13.3
110°-120°	735.9	14.0
120°-130°	605.2	11.5
130°-140°	486.3	9.3
140°-150°	367.4	7.0
150°-160°	258.3	4.9
160°-170°	152.1	2.9
170°-180°	49.5	0.9
0°-30°	582.1	11.1
0°-40°	904.0	17.2
0°-60°	1432.1	27.3
0°-90°	1684.3	32.1
90°-120°	1643.2	31.3
90°-150°	3102.0	59.1
90°-180°	3562.0	67.9
0°-180°	5246.0	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	33	32	32	4
95°	34	84	385	145	112	36
105°	120	181	728	1301	1107	127
115°	211	267	609	1257	1457	209
125°	295	349	586	1018	1182	262
135°	346	413	579	856	980	267
145°	395	454	576	715	782	248
155°	449	485	559	632	657	207
165°	489	504	535	568	577	138
175°	510	510	515	521	520	48
180°	511	511	511	511	511	

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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°	1.0	13.2	33.4	31.9	32.4
92.5°	14.7	46.7	151.3	69.8	59.9
95°	34.4	84.5	385.1	145.4	112.0
97.5°	51.1	111.5	627.8	291.8	187.6
100°	75.6	136.6	776.1	581.2	351.7
102.5°	98.2	159.2	781.0	982.4	685.7
105°	119.9	180.8	728.0	1301.2	1107.2
107.5°	143.4	202.4	678.9	1416.6	1391.1
110°	167.0	224.4	645.5	1398.0	1507.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.6	245.6	623.9	1334.6	1505.1
115°	211.2	266.8	609.1	1257.0	1457.0
117.5°	234.8	287.8	601.3	1182.8	1384.3
120°	256.4	308.4	594.4	1116.5	1314.5
122.5°	277.0	329.6	590.4	1065.0	1241.8
125°	294.7	348.8	585.5	1018.3	1181.9
127.5°	309.5	367.0	582.6	978.5	1125.9
130°	322.2	383.2	580.6	938.2	1079.7
132.5°	334.0	398.8	579.6	896.4	1031.6
135°	345.8	412.6	578.7	855.7	979.5
137.5°	356.6	424.4	578.7	814.4	929.4
140°	369.4	435.2	577.7	778.1	877.3
142.5°	382.2	444.1	577.7	743.2	825.3
145°	394.9	453.9	575.7	714.8	782.0
147.5°	408.7	461.8	572.8	689.7	743.7
150°	422.5	469.6	569.8	668.0	710.3
152.5°	436.2	477.4	564.9	649.9	681.8
155°	449.0	484.8	559.0	632.2	657.3
157.5°	459.8	490.7	553.1	615.5	635.6
160°	470.6	496.6	547.2	598.8	615.0
162.5°	481.4	501.0	542.3	583.0	595.4
165°	489.3	504.0	535.4	567.8	576.7
167.5°	496.1	507.0	529.5	554.1	559.0
170°	503.0	508.4	524.6	541.3	543.3
172.5°	506.9	509.9	518.7	530.0	530.5
175°	509.9	510.4	514.8	521.2	519.7
177.5°	511.9	510.9	510.9	514.8	511.9
180°	510.9	510.9	510.9	510.9	510.9

(END OF REPORT)