

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: P1010017

Luminaire Tested: S122RDIP-B485D530UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010017
REPORT IS A COMBINATION OF REPORTS P988317 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B485D530UB30-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

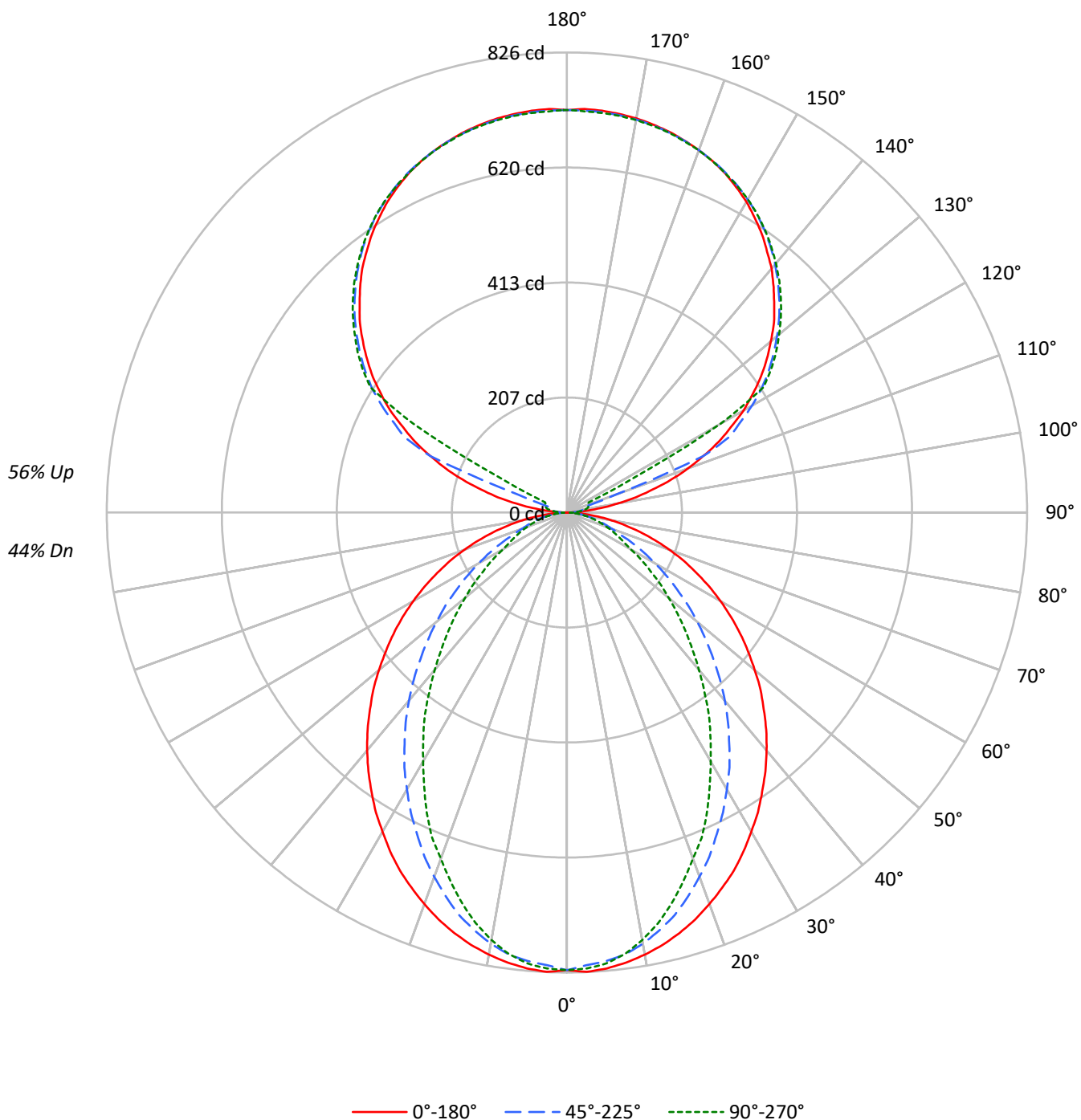
Lumens per Lamp: N/A
Luminaire Lumens: 3810.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	93	89	86	89	85	82	79	71	69	67	58	56	55	46	45	44
2	89	82	76	71	81	75	70	66	63	59	56	51	49	47	41	39	38
3	81	72	65	59	74	66	60	55	56	51	47	46	43	40	36	34	32
4	74	64	56	51	68	59	52	47	50	45	41	41	37	34	33	30	28
5	68	57	49	44	63	53	46	41	45	39	35	37	33	30	30	27	25
6	63	51	44	38	58	48	41	36	40	35	31	34	30	27	27	24	22
7	58	47	39	33	53	43	36	31	37	31	28	31	27	24	25	22	20
8	54	42	35	30	50	39	33	28	34	28	25	28	24	21	23	20	18
9	51	39	31	27	46	36	29	25	31	26	22	26	22	19	21	18	16
10	47	36	29	24	43	33	27	23	28	23	20	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13007	13007	13007
5°	13028	12374	12283
10°	12900	11736	11349
15°	12723	10983	10285
20°	12488	10128	9173
25°	12247	9249	8154
30°	11924	8392	7042
35°	11610	7529	6086
40°	11287	6682	5104
45°	10913	5806	4245
50°	10527	4962	3456
55°	10126	4119	2743
60°	9659	3294	2076
65°	9122	2511	1688
70°	8471	1823	1343
75°	7653	1390	1024
80°	6475	941	687
85°	4520	430	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10913 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	2.0
10°-20°	211.4	5.5
20°-30°	296.8	7.8
30°-40°	323.6	8.5
40°-50°	297.4	7.8
50°-60°	233.5	6.1
60°-70°	152.0	4.0
70°-80°	78.3	2.1
80°-90°	21.3	0.6
90°-100°	23.8	0.6
100°-110°	88.8	2.3
110°-120°	235.6	6.2
120°-130°	390.8	10.3
130°-140°	415.1	10.9
140°-150°	385.8	10.1
150°-160°	310.2	8.1
160°-170°	199.9	5.2
170°-180°	68.8	1.8
0°-30°	585.3	15.4
0°-40°	908.8	23.9
0°-60°	1439.7	37.8
0°-90°	1691.3	44.4
90°-120°	348.3	9.1
90°-150°	1539.9	40.4
90°-180°	2119.0	55.6
0°-180°	3810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	822	818	808	815	813	78
15°	782	773	748	734	726	220
25°	709	686	637	606	595	326
35°	611	573	508	461	445	383
45°	500	450	372	319	301	386
55°	380	322	242	197	183	340
65°	257	196	129	104	102	254
75°	137	85	60	54	54	145
85°	32	16	14	14	14	37
90°	0	6	10	13	14	4
95°	34	17	20	23	22	40
105°	159	175	32	38	40	170
115°	301	310	323	80	43	296
125°	425	432	442	446	447	379
135°	526	534	539	544	543	406
145°	610	610	619	622	620	382
155°	672	667	674	677	672	310
165°	708	705	706	710	706	200
175°	724	721	722	725	720	69
180°	723	723	723	723	723	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.7	821.7	821.7	821.7	821.7
2.5°	825.5	821.7	813.6	821.0	819.5
5°	821.7	818.0	808.3	815.0	812.8
7.5°	815.0	810.6	800.2	803.1	799.4
10°	806.1	800.9	786.0	783.8	779.3
12.5°	795.0	788.3	768.2	763.7	755.5
15°	781.6	773.4	748.1	734.0	726.5
17.5°	766.0	754.1	722.8	706.5	694.6
20°	748.1	733.2	696.1	677.5	661.1
22.5°	728.8	711.7	668.5	643.3	632.1
25°	709.4	685.6	636.6	606.1	594.9
27.5°	686.4	661.1	606.8	571.9	554.8
30°	661.8	633.6	574.1	536.2	516.1
32.5°	638.1	603.8	542.9	498.2	479.7
35°	611.3	573.4	507.9	461.1	444.7
37.5°	585.3	544.4	475.2	423.9	405.3
40°	557.7	513.1	441.0	388.2	368.9
42.5°	529.5	481.9	406.8	351.7	333.2
45°	499.7	449.9	371.8	319.0	301.2
47.5°	471.5	418.7	338.4	285.6	269.2
50°	440.2	387.4	305.6	254.3	238.7
52.5°	409.8	354.0	274.4	225.3	211.2
55°	380.0	322.0	241.7	197.1	182.9
57.5°	349.5	290.0	212.7	171.0	159.1
60°	318.3	258.8	182.2	144.3	132.4
62.5°	287.8	228.3	156.2	120.5	114.5
65°	256.6	196.3	129.4	104.1	101.9
67.5°	226.8	166.6	104.1	91.5	89.2
70°	195.6	137.6	86.3	78.8	75.9
72.5°	165.8	110.8	72.1	66.2	64.7
75°	136.8	84.8	59.5	54.3	53.5
77.5°	107.8	60.2	46.8	43.9	42.4
80°	81.1	43.1	35.7	32.7	32.7
82.5°	56.5	29.0	24.5	23.1	23.1
85°	32.0	16.4	14.1	14.1	14.1
87.5°	11.9	5.9	5.9	5.2	5.2
90°	0.5	6.3	10.5	13.1	14.1
92.5°	13.1	11.0	12.6	13.6	14.1
95°	34.0	16.7	20.4	23.0	22.5
97.5°	61.2	18.3	26.7	28.2	28.8
100°	92.6	20.9	29.8	34.0	35.0
102.5°	127.1	126.0	30.9	36.6	38.2
105°	159.0	174.7	31.9	37.7	39.7
107.5°	196.1	209.2	32.9	38.7	40.8
110°	231.7	242.6	91.5	39.2	41.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	265.1	274.5	265.7	40.3	41.8
115°	300.7	309.6	322.7	80.5	42.9
117.5°	331.5	342.0	350.9	276.1	139.1
120°	366.1	373.9	383.3	389.6	319.0
122.5°	395.3	403.7	414.2	417.3	417.8
125°	425.2	432.0	441.9	445.5	447.1
127.5°	452.3	459.7	467.5	472.7	473.3
130°	478.0	486.3	492.1	497.8	497.3
132.5°	504.1	510.9	516.7	521.4	520.9
135°	526.1	534.4	539.2	544.4	543.3
137.5°	549.1	555.4	560.6	565.8	564.3
140°	571.6	575.8	581.5	586.2	583.6
142.5°	590.4	594.1	600.9	605.0	602.4
145°	610.3	609.8	618.6	622.3	619.7
147.5°	627.5	626.0	634.9	637.5	635.4
150°	644.3	640.6	649.0	652.1	649.5
152.5°	658.4	654.2	662.0	665.2	661.5
155°	672.0	667.3	673.6	676.7	672.5
157.5°	683.0	678.8	683.5	687.1	683.0
160°	692.4	689.2	692.4	695.5	691.9
162.5°	700.7	697.6	700.2	703.9	699.2
165°	708.1	704.9	706.5	710.2	706.5
167.5°	713.8	710.7	712.2	715.9	711.2
170°	718.5	715.4	716.4	720.1	715.4
172.5°	721.7	718.5	719.6	723.2	718.5
175°	724.3	720.6	721.7	725.3	720.1
177.5°	725.3	721.7	722.2	725.8	721.1
180°	722.7	722.7	722.7	722.7	722.7

(END OF REPORT)