

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: P1009704

Luminaire Tested: S122RDIP-B1005D330UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009704
REPORT IS A COMBINATION OF REPORTS P987890 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B1005D330UB40-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

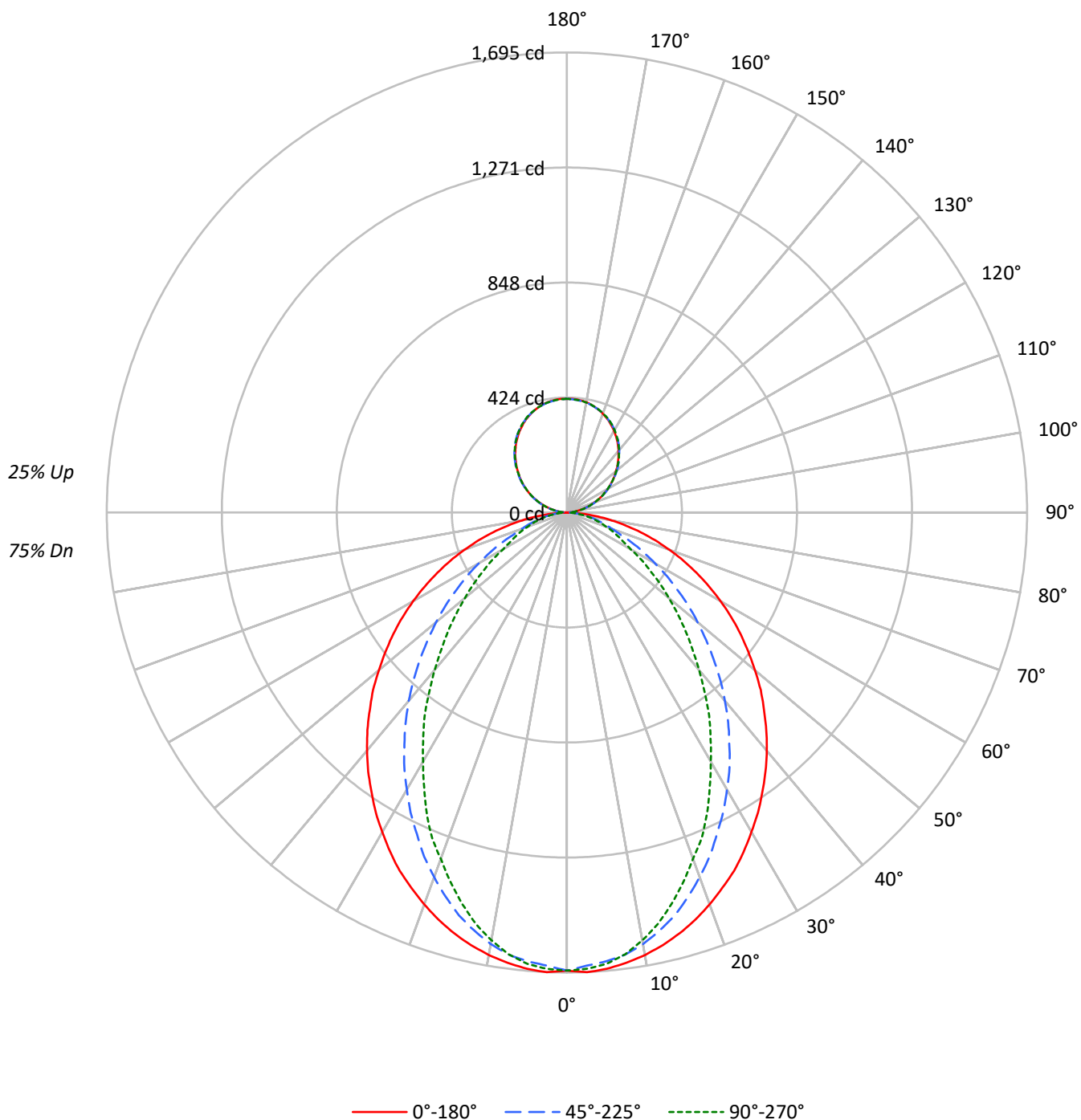
Lumens per Lamp: N/A
Luminaire Lumens: 4643.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79
1	104	100	96	93	99	95	92	89	86	84	81	78	76	75	71	69	68
2	95	88	82	77	91	84	79	74	77	72	69	70	66	63	63	61	58
3	88	78	71	65	83	75	68	63	68	63	59	62	58	55	57	53	51
4	81	70	62	56	76	67	60	54	61	55	51	56	51	47	51	47	44
5	74	63	55	49	71	60	53	47	55	49	44	51	46	42	47	42	39
6	69	57	49	43	65	54	47	42	50	44	39	46	41	37	43	38	35
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	35	31
8	60	47	39	34	57	45	38	33	42	36	32	39	34	30	36	32	28
9	56	43	36	31	53	42	35	30	39	33	29	36	31	27	33	29	26
10	52	40	33	28	50	39	32	27	36	30	26	34	28	25	31	27	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26715	26715	26715
5°	26759	25416	25228
10°	26494	24106	23311
15°	26130	22559	21124
20°	25649	20799	18839
25°	25156	18994	16748
30°	24492	17236	14463
35°	23844	15464	12501
40°	23184	13722	10481
45°	22417	11925	8719
50°	21623	10191	7098
55°	20797	8460	5635
60°	19836	6765	4264
65°	18731	5159	3465
70°	17396	3742	2756
75°	15719	2854	2105
80°	13293	1932	1413
85°	9281	884	682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22417 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	3.4
10°-20°	434.2	9.4
20°-30°	609.6	13.1
30°-40°	664.5	14.3
40°-50°	610.8	13.2
50°-60°	479.7	10.3
60°-70°	312.2	6.7
70°-80°	160.7	3.5
80°-90°	42.2	0.9
90°-100°	25.9	0.6
100°-110°	82.3	1.8
110°-120°	140.9	3.0
120°-130°	185.3	4.0
130°-140°	208.0	4.5
140°-150°	204.0	4.4
150°-160°	171.1	3.7
160°-170°	113.5	2.4
170°-180°	39.7	0.9
0°-30°	1202.0	25.9
0°-40°	1866.6	40.2
0°-60°	2957.0	63.7
0°-90°	3472.2	74.8
90°-120°	249.2	5.4
90°-150°	846.5	18.2
90°-180°	1171.0	25.2
0°-180°	4643.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1688	1680	1660	1674	1669	160
15°	1605	1588	1536	1508	1492	452
25°	1457	1408	1307	1245	1222	670
35°	1256	1178	1043	947	913	786
45°	1026	924	764	655	619	793
55°	780	661	496	405	376	697
65°	527	403	266	214	209	522
75°	281	174	122	112	110	297
85°	66	34	29	29	29	75
90°	0	5	12	12	12	5
95°	18	22	23	23	22	21
105°	76	77	78	78	78	80
115°	141	144	143	142	141	140
125°	206	209	208	207	206	184
135°	266	270	271	270	269	206
145°	323	326	328	328	326	202
155°	369	370	371	373	372	170
165°	402	402	402	404	402	113
175°	418	417	416	419	417	40
180°	419	419	419	419	419	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.7	1687.7	1687.7	1687.7	1687.7
2.5°	1695.4	1687.7	1670.9	1686.2	1683.1
5°	1687.7	1680.1	1660.2	1674.0	1669.4
7.5°	1674.0	1664.8	1643.4	1649.5	1641.9
10°	1655.6	1644.9	1614.4	1609.8	1600.7
12.5°	1632.7	1619.0	1577.7	1568.6	1551.8
15°	1605.2	1588.4	1536.5	1507.5	1492.2
17.5°	1573.2	1548.7	1484.6	1451.0	1426.5
20°	1536.5	1506.0	1429.6	1391.4	1357.8
22.5°	1496.8	1461.7	1373.1	1321.2	1298.2
25°	1457.1	1408.2	1307.4	1244.8	1221.9
27.5°	1409.7	1357.8	1246.3	1174.5	1139.4
30°	1359.3	1301.3	1179.1	1101.2	1060.0
32.5°	1310.5	1240.2	1115.0	1023.3	985.1
35°	1255.5	1177.6	1043.2	947.0	913.4
37.5°	1202.0	1118.0	976.0	870.6	832.4
40°	1145.5	1053.9	905.7	797.3	757.6
42.5°	1087.5	989.7	835.5	722.4	684.2
45°	1026.4	924.0	763.7	655.2	618.6
47.5°	968.3	859.9	694.9	586.5	552.9
50°	904.2	795.7	627.7	522.4	490.3
52.5°	841.6	727.0	563.6	462.8	433.8
55°	780.5	661.3	496.4	404.7	375.7
57.5°	717.9	595.7	436.8	351.3	326.9
60°	653.7	531.5	374.2	296.3	271.9
62.5°	591.1	468.9	320.7	247.4	235.2
65°	526.9	403.2	265.8	213.8	209.2
67.5°	465.8	342.1	213.8	187.9	183.3
70°	401.7	282.6	177.2	161.9	155.8
72.5°	340.6	227.6	148.2	135.9	132.9
75°	281.0	174.1	122.2	111.5	110.0
77.5°	221.5	123.7	96.2	90.1	87.1
80°	166.5	88.6	73.3	67.2	67.2
82.5°	116.1	59.6	50.4	47.3	47.3
85°	65.7	33.6	29.0	29.0	29.0
87.5°	24.4	12.2	12.2	10.7	10.7
90°	0.4	4.6	12.4	11.7	12.0
92.5°	7.8	10.6	11.0	11.3	11.3
95°	18.4	21.9	22.6	22.6	21.9
97.5°	30.7	33.9	35.3	35.3	35.3
100°	44.9	47.7	48.8	48.8	48.4
102.5°	59.7	61.8	63.3	63.6	63.3
105°	76.0	77.0	77.7	78.5	78.5
107.5°	92.2	93.6	93.6	94.0	92.2
110°	107.8	109.9	109.9	109.9	108.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	124.7	126.9	126.5	125.5	124.7
115°	141.4	143.5	142.8	142.4	141.4
117.5°	158.0	160.8	159.0	158.0	156.9
120°	174.6	177.4	174.6	174.6	173.5
122.5°	189.8	193.3	191.5	190.5	189.8
125°	205.7	208.9	207.8	206.7	206.4
127.5°	221.2	225.1	223.7	222.3	221.2
130°	235.7	240.3	239.6	238.9	237.5
132.5°	252.0	255.5	255.9	254.1	253.0
135°	266.1	270.0	270.7	270.3	269.3
137.5°	281.7	284.8	285.5	285.2	283.8
140°	295.4	298.6	300.4	300.4	299.0
142.5°	309.6	312.8	313.8	314.2	312.8
145°	323.0	325.5	327.6	328.0	326.5
147.5°	335.0	338.2	339.6	340.3	338.9
150°	347.4	349.5	350.9	352.0	350.9
152.5°	358.3	360.5	362.2	363.6	362.2
155°	369.3	370.4	371.4	373.2	372.1
157.5°	378.8	379.5	380.3	382.7	381.0
160°	387.3	388.0	388.4	390.5	389.1
162.5°	395.1	395.1	395.4	397.9	396.2
165°	401.8	401.5	401.5	403.9	402.2
167.5°	407.8	406.8	406.8	409.2	407.5
170°	412.4	411.4	411.0	413.5	411.4
172.5°	415.6	414.5	414.2	416.7	414.5
175°	418.1	417.0	416.3	418.8	416.7
177.5°	419.5	418.4	417.7	419.8	417.7
180°	418.8	418.8	418.8	418.8	418.8

(END OF REPORT)