

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: P1010245

Luminaire Tested: S122RDIP-B675D925UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010245
REPORT IS A COMBINATION OF REPORTS P988617 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B675D925UB50-4F0-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

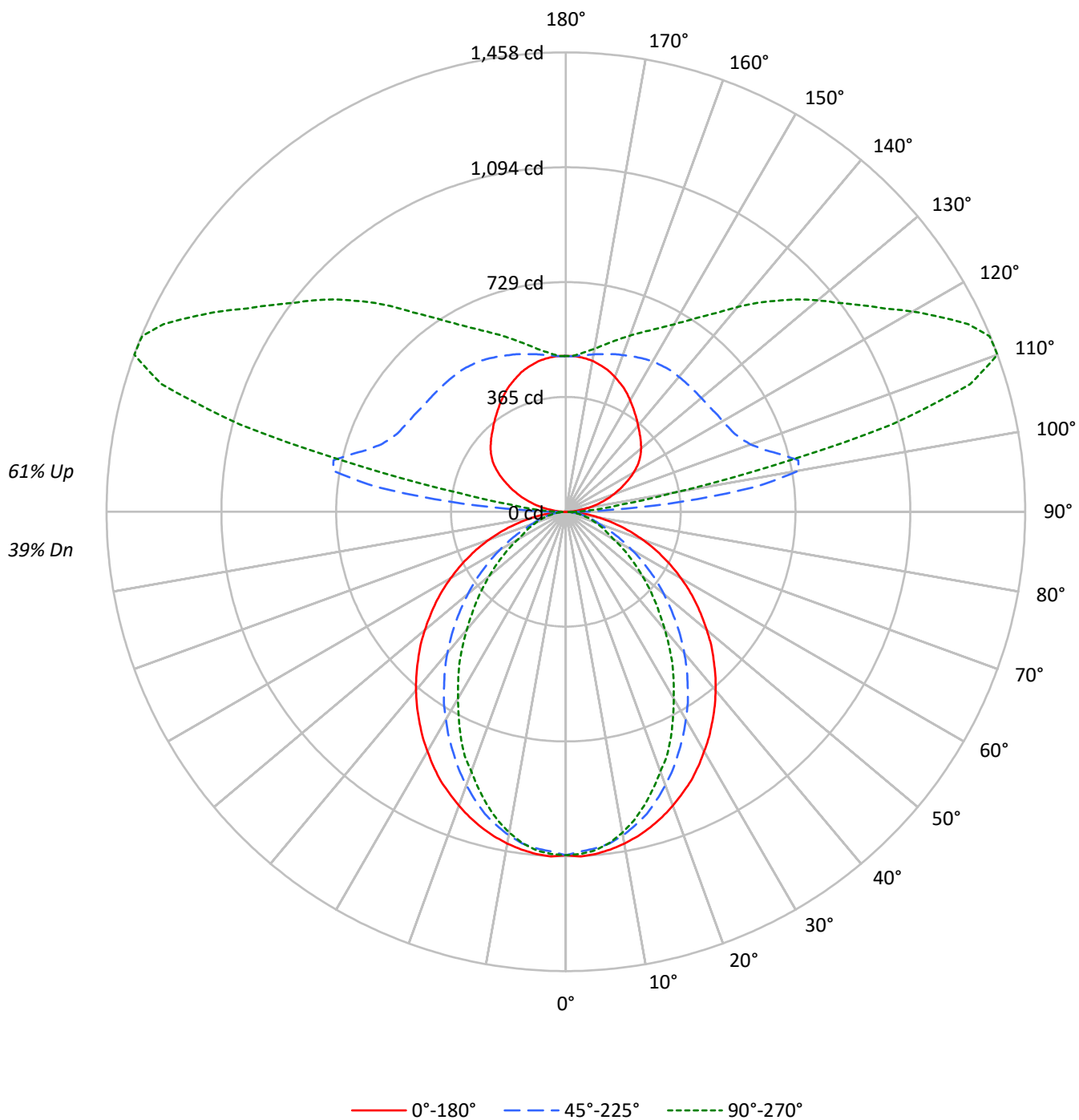
Lumens per Lamp: N/A
Luminaire Lumens: 5689.9 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 64.4
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46
1	96	92	88	85	87	84	80	78	68	66	64	54	53	52	42	41	40
2	88	80	75	70	79	73	69	64	60	57	54	48	46	44	37	36	34
3	80	71	64	59	73	65	59	54	54	49	46	43	40	37	33	31	30
4	73	63	56	50	67	58	51	46	48	43	39	39	35	32	30	28	26
5	67	56	49	43	61	52	45	40	43	38	34	35	31	28	27	25	23
6	62	51	43	37	56	46	40	35	39	34	30	31	28	25	25	22	20
7	58	46	38	33	52	42	35	31	35	30	26	29	25	22	23	20	18
8	53	42	34	29	49	38	32	27	32	27	23	26	23	20	21	18	16
9	50	38	31	26	45	35	29	24	29	25	21	24	21	18	19	17	15
10	46	35	28	23	42	32	26	22	27	22	19	22	19	16	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17256	17256	17256
5°	17284	16417	16295
10°	17114	15571	15057
15°	16879	14572	13645
20°	16568	13435	12168
25°	16249	12269	10817
30°	15820	11133	9342
35°	15400	9988	8075
40°	14975	8863	6769
45°	14480	7703	5632
50°	13965	6584	4585
55°	13432	5464	3640
60°	12811	4370	2754
65°	12101	3332	2239
70°	11238	2416	1780
75°	10153	1843	1359
80°	8583	1249	912
85°	5989	570	440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14480 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	1.8
10°-20°	280.5	4.9
20°-30°	393.8	6.9
30°-40°	429.2	7.5
40°-50°	394.5	6.9
50°-60°	309.8	5.4
60°-70°	201.7	3.5
70°-80°	103.8	1.8
80°-90°	29.7	0.5
90°-100°	200.3	3.5
100°-110°	677.1	11.9
110°-120°	711.8	12.5
120°-130°	585.3	10.3
130°-140°	470.3	8.3
140°-150°	355.3	6.2
150°-160°	249.8	4.4
160°-170°	147.1	2.6
170°-180°	47.8	0.8
0°-30°	776.4	13.6
0°-40°	1205.7	21.2
0°-60°	1910.0	33.6
0°-90°	2245.2	39.5
90°-120°	1589.2	27.9
90°-150°	3000.1	52.7
90°-180°	3445.0	60.5
0°-180°	5689.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1090	1085	1072	1081	1078	103
15°	1037	1026	992	974	964	292
25°	941	910	844	804	789	433
35°	811	761	674	612	590	508
45°	663	597	493	423	400	512
55°	504	427	321	261	243	450
65°	340	260	172	138	135	337
75°	182	112	79	72	71	192
85°	42	22	19	19	19	49
90°	1	13	32	31	31	4
95°	33	82	372	141	108	34
105°	116	175	704	1258	1071	123
115°	204	258	589	1216	1409	203
125°	285	337	566	985	1143	253
135°	334	399	560	828	947	258
145°	382	439	557	691	756	240
155°	434	469	541	611	636	200
165°	473	487	518	549	558	133
175°	493	494	498	504	503	47
180°	494	494	494	494	494	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.1	1090.1	1090.1	1090.1	1090.1
2.5°	1095.1	1090.1	1079.3	1089.1	1087.2
5°	1090.1	1085.2	1072.4	1081.3	1078.3
7.5°	1081.3	1075.3	1061.5	1065.5	1060.5
10°	1069.4	1062.5	1042.8	1039.8	1033.9
12.5°	1054.6	1045.7	1019.1	1013.2	1002.3
15°	1036.9	1026.0	992.5	973.7	963.9
17.5°	1016.1	1000.4	958.9	937.2	921.4
20°	992.5	972.7	923.4	898.7	877.0
22.5°	966.8	944.1	886.9	853.4	838.6
25°	941.2	909.6	844.5	804.0	789.2
27.5°	910.6	877.0	805.0	758.7	736.0
30°	878.0	840.5	761.6	711.3	684.7
32.5°	846.5	801.1	720.2	661.0	636.3
35°	810.9	760.6	673.8	611.7	590.0
37.5°	776.4	722.2	630.4	562.3	537.7
40°	739.9	680.7	585.0	515.0	489.3
42.5°	702.4	639.3	539.6	466.6	442.0
45°	663.0	596.9	493.3	423.2	399.6
47.5°	625.5	555.4	448.9	378.8	357.1
50°	584.0	514.0	405.5	337.4	316.7
52.5°	543.6	469.6	364.0	298.9	280.2
55°	504.1	427.2	320.6	261.4	242.7
57.5°	463.7	384.8	282.2	226.9	211.1
60°	422.2	343.3	241.7	191.4	175.6
62.5°	381.8	302.9	207.2	159.8	151.9
65°	340.4	260.4	171.7	138.1	135.2
67.5°	300.9	221.0	138.1	121.3	118.4
70°	259.5	182.5	114.4	104.6	100.6
72.5°	220.0	147.0	95.7	87.8	85.8
75°	181.5	112.5	78.9	72.0	71.0
77.5°	143.0	79.9	62.2	58.2	56.2
80°	107.5	57.2	47.4	43.4	43.4
82.5°	75.0	38.5	32.6	30.6	30.6
85°	42.4	21.7	18.7	18.7	18.7
87.5°	15.8	7.9	7.9	6.9	6.9
90°	1.0	12.8	32.3	30.9	31.4
92.5°	14.3	45.2	146.3	67.5	58.0
95°	33.3	81.7	372.5	140.6	108.3
97.5°	49.4	107.8	607.2	282.2	181.5
100°	73.2	132.1	750.6	562.0	340.2
102.5°	95.0	153.9	755.4	950.2	663.2
105°	115.9	174.8	704.1	1258.5	1070.8
107.5°	138.7	195.7	656.6	1370.1	1345.4
110°	161.5	217.1	624.3	1352.0	1457.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.4	237.6	603.4	1290.8	1455.7
115°	204.3	258.0	589.1	1215.8	1409.1
117.5°	227.1	278.4	581.5	1144.0	1338.8
120°	248.0	298.4	574.8	1079.8	1271.3
122.5°	267.9	318.8	571.0	1030.0	1201.0
125°	285.0	337.3	566.3	984.8	1143.0
127.5°	299.3	354.9	563.4	946.4	1088.9
130°	311.7	370.6	561.5	907.4	1044.2
132.5°	323.1	385.8	560.6	867.0	997.7
135°	334.5	399.1	559.6	827.6	947.3
137.5°	344.9	410.4	559.6	787.6	898.9
140°	357.3	421.0	558.7	752.5	848.5
142.5°	369.6	429.5	558.7	718.8	798.1
145°	382.0	439.0	556.8	691.2	756.3
147.5°	395.3	446.6	553.9	667.0	719.3
150°	408.6	454.2	551.1	646.2	687.0
152.5°	421.9	461.8	546.3	628.6	659.4
155°	434.2	468.9	540.6	611.4	635.7
157.5°	444.7	474.6	534.9	595.3	614.8
160°	455.1	480.3	529.2	579.2	594.8
162.5°	465.6	484.6	524.5	563.9	575.8
165°	473.2	487.4	517.8	549.2	557.7
167.5°	479.8	490.3	512.1	535.9	540.6
170°	486.5	491.7	507.4	523.6	525.4
172.5°	490.3	493.2	501.7	512.6	513.1
175°	493.1	493.6	497.9	504.0	502.6
177.5°	495.0	494.1	494.1	497.9	495.0
180°	494.1	494.1	494.1	494.1	494.1

(END OF REPORT)