

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: P1009209

Luminaire Tested: S122DIP-B485D925UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009209
REPORT IS A COMBINATION OF REPORTS P984417 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D925UB50-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

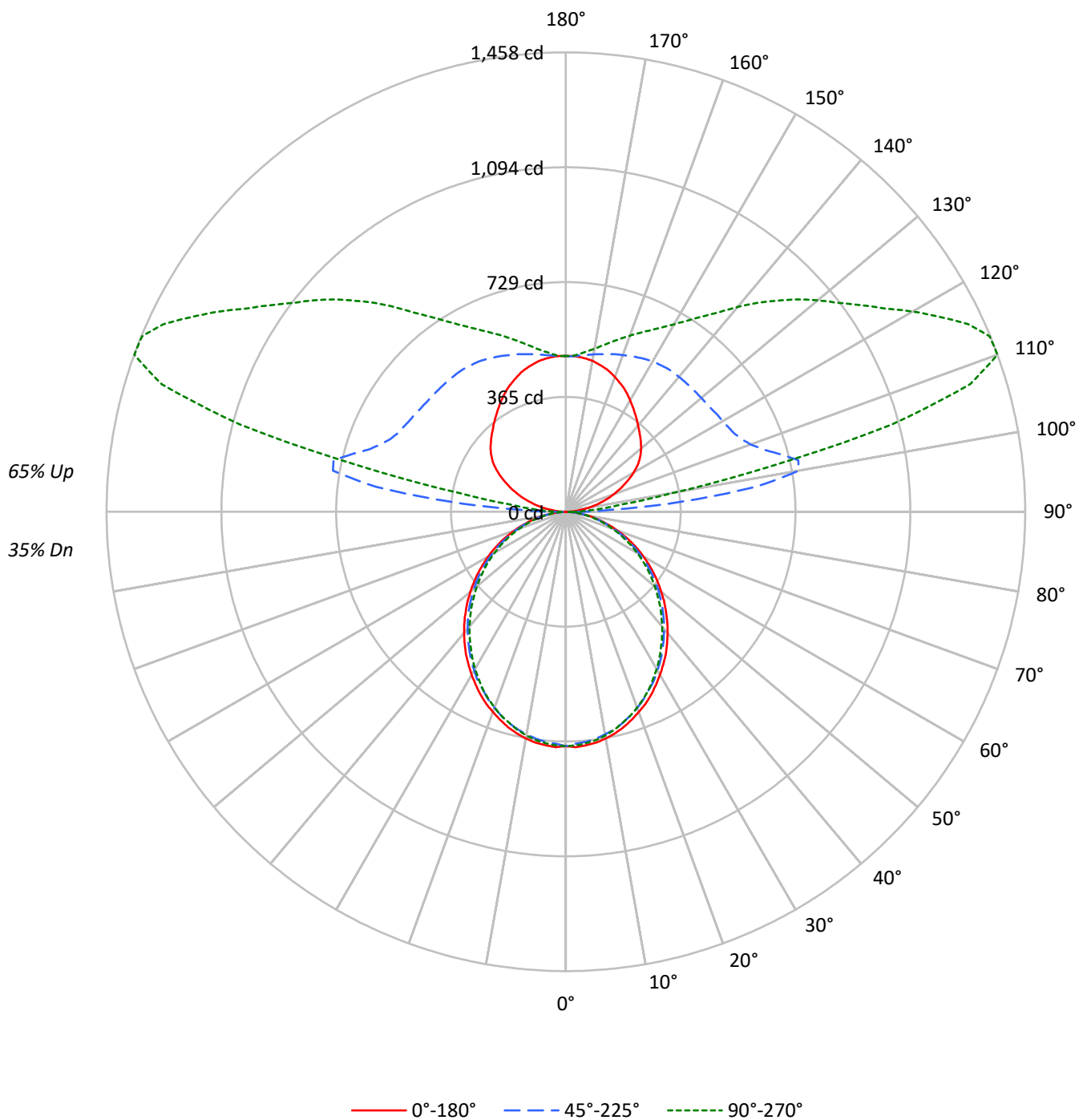
Lumens per Lamp: N/A
Luminaire Lumens: 5339.9 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43
1	95	90	86	83	85	82	79	76	66	64	62	51	50	48	38	37	36
2	86	79	73	68	78	71	66	62	58	54	51	45	43	40	33	32	30
3	78	69	62	56	71	63	57	52	51	46	43	40	37	34	29	28	26
4	72	61	53	48	65	56	49	44	45	40	36	35	32	29	26	24	22
5	66	54	47	41	59	50	43	38	40	35	31	32	28	25	24	21	19
6	61	49	41	35	55	44	38	32	36	31	27	29	25	22	21	19	17
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	20	17	15
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	14
9	48	36	29	24	43	33	27	22	27	22	19	22	18	16	17	14	12
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11772	11772	11772
5°	11791	11220	11141
10°	11695	10709	10497
15°	11524	10194	9819
20°	11291	9633	9177
25°	11061	9048	8536
30°	10771	8498	7863
35°	10497	7919	7203
40°	10160	7345	6579
45°	9824	6777	5966
50°	9455	6199	5332
55°	9070	5582	4729
60°	8636	4912	4104
65°	8159	4233	3447
70°	7557	3489	2783
75°	6718	2689	2149
80°	5708	1829	1383
85°	4139	851	588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	1.3
10°-20°	196.9	3.7
20°-30°	289.4	5.4
30°-40°	336.1	6.3
40°-50°	335.7	6.3
50°-60°	292.7	5.5
60°-70°	216.4	4.1
70°-80°	122.4	2.3
80°-90°	35.5	0.7
90°-100°	200.3	3.8
100°-110°	677.1	12.7
110°-120°	711.8	13.3
120°-130°	585.3	11.0
130°-140°	470.3	8.8
140°-150°	355.3	6.7
150°-160°	249.8	4.7
160°-170°	147.1	2.8
170°-180°	47.8	0.9
0°-30°	556.3	10.4
0°-40°	892.4	16.7
0°-60°	1520.9	28.5
0°-90°	1895.2	35.5
90°-120°	1589.2	29.8
90°-150°	3000.1	56.2
90°-180°	3445.0	64.5
0°-180°	5339.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	744	741	733	739	737	71
15°	708	704	694	697	694	199
25°	641	635	623	624	623	295
35°	553	546	534	530	526	345
45°	450	445	434	426	423	347
55°	340	336	328	319	315	304
65°	230	225	218	212	208	227
75°	120	119	115	111	112	128
85°	29	29	28	26	25	33
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°	743.7	743.7	743.7	743.7	743.7
2.5°	748.0	744.4	736.5	743.7	742.2
5°	743.7	740.8	732.9	738.7	737.2
7.5°	738.7	734.4	726.5	732.2	730.8
10°	730.8	725.8	717.2	722.9	720.8
12.5°	720.1	715.8	707.2	710.8	709.3
15°	707.9	703.6	694.3	697.2	693.6
17.5°	692.9	688.6	679.3	682.9	679.3
20°	676.4	672.2	662.1	664.3	661.4
22.5°	660.0	653.6	644.3	644.3	642.8
25°	640.7	635.0	622.8	624.2	622.8
27.5°	619.2	614.2	604.9	602.8	599.2
30°	597.8	592.1	581.3	579.2	576.3
32.5°	574.9	570.6	559.2	554.9	552.0
35°	552.7	545.6	534.2	529.9	526.3
37.5°	527.7	521.3	509.8	504.8	501.3
40°	502.0	496.3	484.8	478.4	475.5
42.5°	476.9	471.2	459.8	452.6	448.3
45°	449.8	444.8	434.0	426.2	423.3
47.5°	423.3	418.3	406.9	399.0	394.7
50°	395.4	391.9	381.8	371.8	368.3
52.5°	368.3	363.3	354.0	346.1	341.1
55°	340.4	336.1	327.5	318.9	315.3
57.5°	312.5	308.9	299.6	291.0	288.2
60°	284.6	281.7	271.7	263.9	261.7
62.5°	257.4	252.4	245.3	238.1	235.3
65°	229.5	225.2	218.1	211.7	208.1
67.5°	200.9	197.4	190.9	185.9	183.1
70°	174.5	171.6	165.2	160.2	157.3
72.5°	147.3	144.4	140.9	135.9	133.7
75°	120.1	118.7	115.1	110.8	112.3
77.5°	95.8	93.0	91.5	89.4	87.2
80°	71.5	70.8	69.4	67.2	65.8
82.5°	48.6	48.6	47.9	45.0	45.0
85°	29.3	28.6	27.9	25.7	25.0
87.5°	12.9	11.4	10.0	7.9	7.2
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)