

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: P1009208

Luminaire Tested: S122DIP-B485D925UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009208
REPORT IS A COMBINATION OF REPORTS P984416 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-F1
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

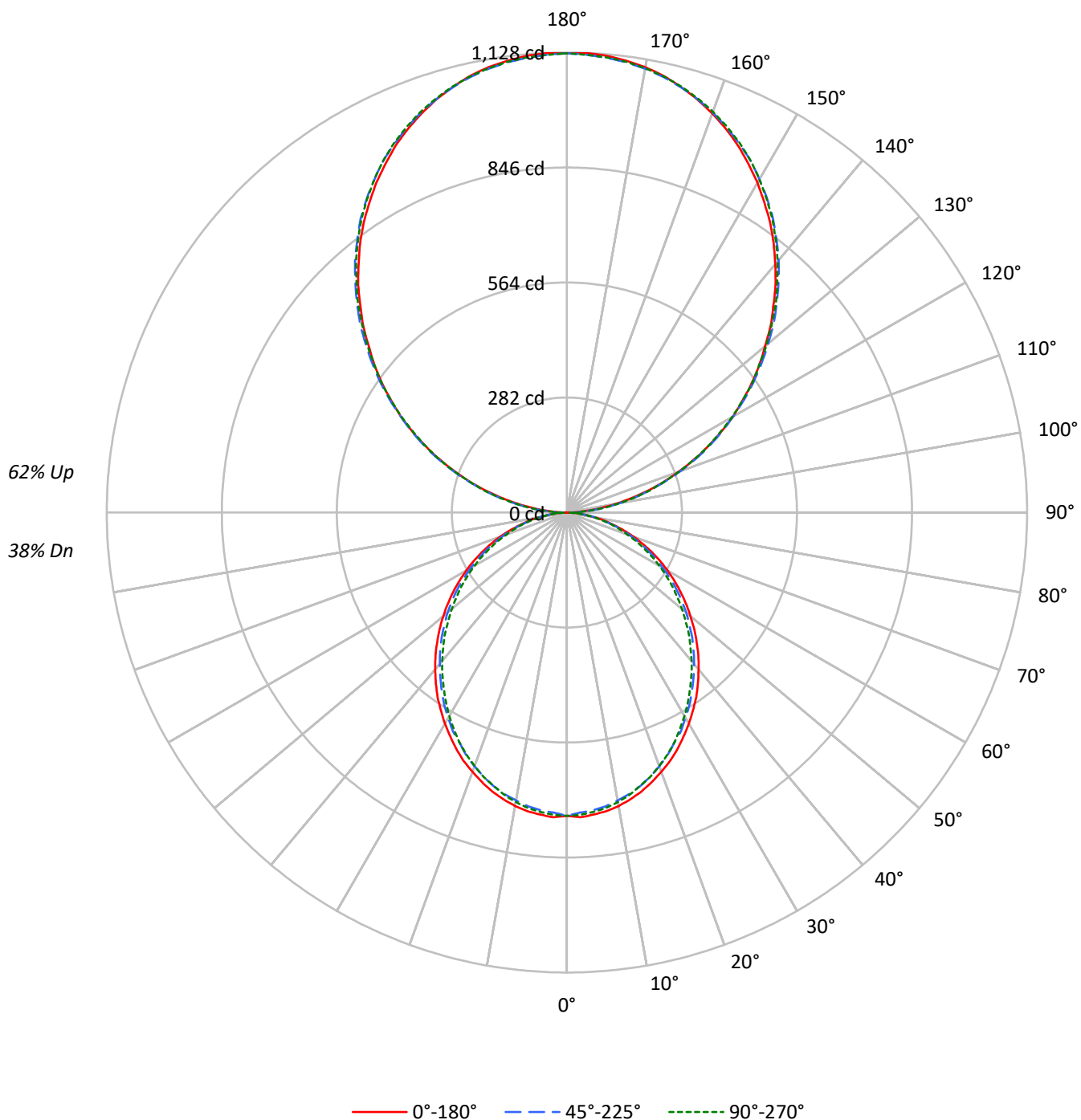
Lumens per Lamp: N/A
Luminaire Lumens: 5043.0 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	95	95	95	95	76	76	76	60	60	60	45	45	45
1	95	91	87	83	86	82	79	76	67	65	63	53	51	50	39	39	38
2	86	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14
9	48	36	29	24	44	33	27	23	28	23	19	22	19	16	17	15	13
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12

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	1.4
10°-20°	196.9	3.9
20°-30°	289.4	5.7
30°-40°	336.1	6.7
40°-50°	335.7	6.7
50°-60°	292.7	5.8
60°-70°	216.4	4.3
70°-80°	122.4	2.4
80°-90°	35.5	0.7
90°-100°	69.6	1.4
100°-110°	221.4	4.4
110°-120°	378.9	7.5
120°-130°	498.3	9.9
130°-140°	559.3	11.1
140°-150°	548.5	10.9
150°-160°	460.1	9.1
160°-170°	305.1	6.1
170°-180°	106.6	2.1
0°-30°	556.3	11.0
0°-40°	892.4	17.7
0°-60°	1520.9	30.2
0°-90°	1895.2	37.6
90°-120°	669.9	13.3
90°-150°	2276.0	45.1
90°-180°	3148.0	62.4
0°-180°	5043.0	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	12	33	31	32	5
95°	49	59	61	61	59	55
105°	204	207	209	211	211	216
115°	380	386	384	383	380	376
125°	553	562	559	556	555	494
135°	715	726	728	727	724	553
145°	868	875	881	882	878	543
155°	993	996	999	1003	1000	457
165°	1080	1079	1079	1086	1081	305
175°	1124	1121	1119	1126	1120	107
180°	1126	1126	1126	1126	1126	

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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	12.4	33.3	31.4	32.3
92.5°	20.9	28.5	29.5	30.4	30.4
95°	49.4	58.9	60.8	60.8	58.9
97.5°	82.7	91.2	95.0	95.0	95.0
100°	120.7	128.3	131.1	131.1	130.2
102.5°	160.6	166.3	170.1	171.0	170.1
105°	204.3	207.1	209.0	210.9	210.9
107.5°	248.0	251.8	251.8	252.7	248.0
110°	289.8	295.5	295.5	295.5	292.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.4	341.1	340.1	337.3	335.4
115°	380.0	385.8	383.9	382.9	380.0
117.5°	424.7	432.3	427.6	424.7	421.9
120°	469.4	477.0	469.4	469.4	466.5
122.5°	510.2	519.7	515.0	512.1	510.2
125°	553.0	561.5	558.7	555.8	554.9
127.5°	594.8	605.2	601.4	597.6	594.8
130°	633.7	646.1	644.2	642.3	638.5
132.5°	677.4	686.9	687.9	683.1	680.3
135°	715.4	725.9	727.8	726.8	724.0
137.5°	757.2	765.8	767.7	766.8	762.9
140°	794.3	802.9	807.6	807.6	803.8
142.5°	832.3	840.9	843.7	844.7	840.9
145°	868.4	875.1	880.8	881.7	877.9
147.5°	900.7	909.3	913.1	915.0	911.2
150°	934.0	939.7	943.5	946.3	943.5
152.5°	963.4	969.1	973.9	977.7	973.9
155°	992.9	995.7	998.6	1003.3	1000.5
157.5°	1018.5	1020.4	1022.3	1029.0	1024.2
160°	1041.3	1043.2	1044.2	1049.9	1046.1
162.5°	1062.2	1062.2	1063.2	1069.8	1065.1
165°	1080.3	1079.3	1079.3	1086.0	1081.2
167.5°	1096.4	1093.6	1093.6	1100.2	1095.5
170°	1108.8	1105.9	1105.0	1111.6	1105.9
172.5°	1117.3	1114.5	1113.5	1120.2	1114.5
175°	1124.0	1121.1	1119.2	1125.9	1120.2
177.5°	1127.8	1124.9	1123.0	1128.7	1123.0
180°	1125.9	1125.9	1125.9	1125.9	1125.9

(END OF REPORT)