

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: P1008674

Luminaire Tested: S122DIP-B1005D530UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008674
REPORT IS A COMBINATION OF REPORTS P983696 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D530UB50-4F0-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

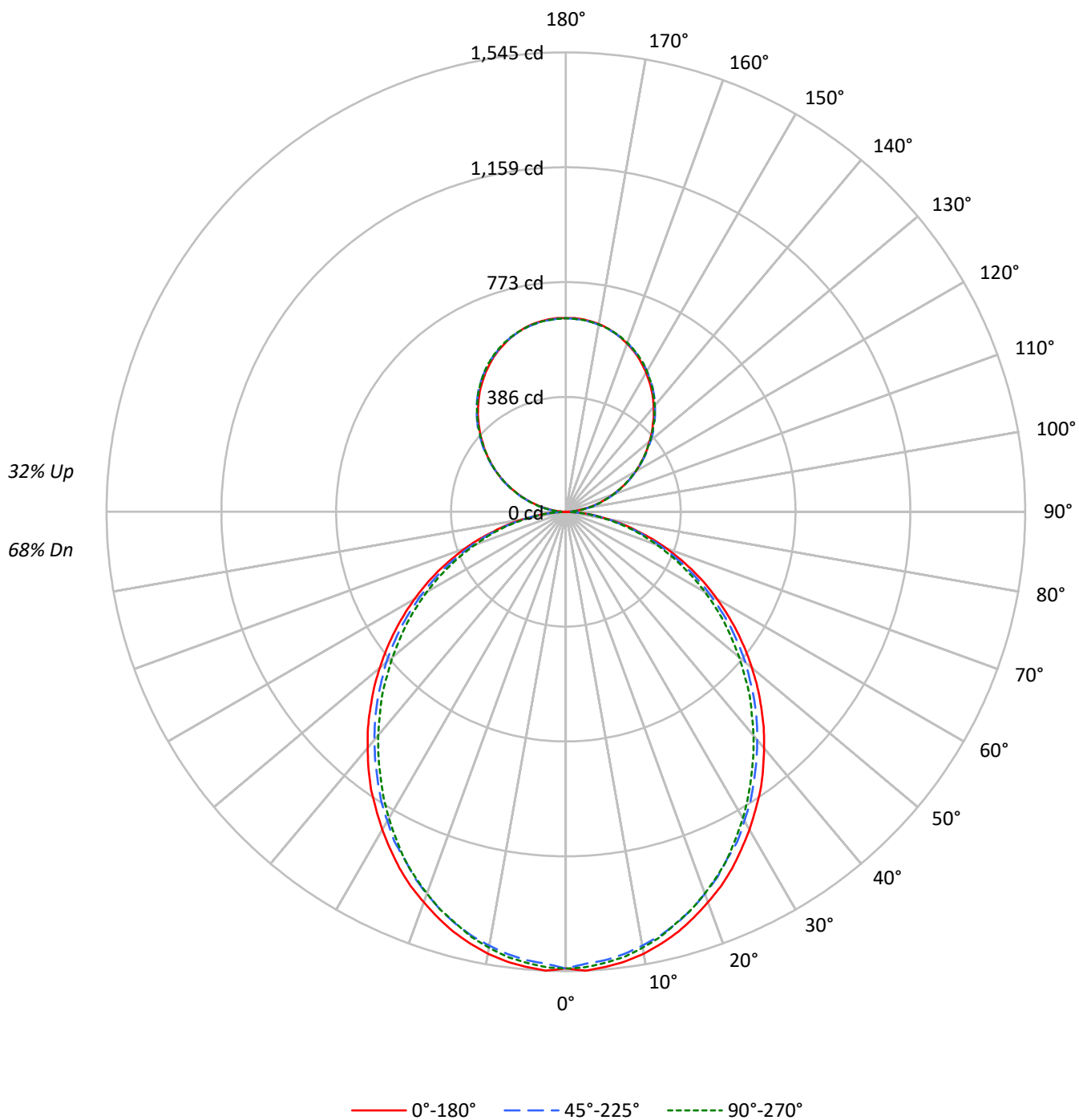
Lumens per Lamp: N/A
Luminaire Lumens: 5730.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	68		
1	102	97	93	90	96	92	89	85	82	79	77	73	71	69	64	63	62	57		
2	93	85	79	73	87	81	75	70	72	68	64	64	61	58	57	54	52	48		
3	85	75	67	61	80	71	64	59	64	58	54	57	52	49	50	47	44	41		
4	78	66	58	52	73	63	56	50	57	51	46	51	46	42	45	41	38	35		
5	71	59	51	45	67	56	49	43	51	44	40	45	40	36	41	37	33	30		
6	66	53	45	39	62	51	43	37	46	39	35	41	36	32	37	33	29	27		
7	61	48	40	34	57	46	38	33	42	35	31	37	32	28	34	29	26	24		
8	57	44	36	30	53	42	35	29	38	32	27	34	29	25	31	27	23	21		
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	24	21	19		
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	27	22	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24315	24315	24315
5°	24355	23176	23013
10°	24156	22120	21681
15°	23803	21057	20282
20°	23324	19899	18956
25°	22848	18690	17633
30°	22249	17554	16243
35°	21683	16355	14879
40°	20984	15172	13589
45°	20289	13999	12325
50°	19533	12805	11011
55°	18732	11530	9770
60°	17837	10148	8477
65°	16854	8743	7118
70°	15608	7206	5748
75°	13879	5555	4439
80°	11792	3776	2857
85°	8560	1756	1216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20289 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.6	2.5
10°-20°	406.8	7.1
20°-30°	597.8	10.4
30°-40°	694.3	12.1
40°-50°	693.4	12.1
50°-60°	604.6	10.6
60°-70°	446.9	7.8
70°-80°	252.9	4.4
80°-90°	68.6	1.2
90°-100°	40.3	0.7
100°-110°	128.0	2.2
110°-120°	219.1	3.8
120°-130°	288.1	5.0
130°-140°	323.4	5.6
140°-150°	317.1	5.5
150°-160°	266.0	4.6
160°-170°	176.4	3.1
170°-180°	61.7	1.1
0°-30°	1149.1	20.1
0°-40°	1843.4	32.2
0°-60°	3141.4	54.8
0°-90°	3909.9	68.2
90°-120°	387.4	6.8
90°-150°	1316.0	23.0
90°-180°	1820.0	31.8
0°-180°	5730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1536	1530	1514	1526	1523	146
15°	1462	1453	1434	1440	1433	412
25°	1323	1312	1286	1289	1286	609
35°	1142	1127	1103	1094	1087	713
45°	929	919	896	880	874	717
55°	703	694	676	659	651	629
65°	474	465	450	437	430	469
75°	248	245	238	229	232	265
85°	61	59	58	53	52	67
90°	0	7	19	18	19	5
95°	29	34	35	35	34	32
105°	118	120	121	122	122	125
115°	220	223	222	221	220	217
125°	320	325	323	321	321	286
135°	414	420	421	420	419	320
145°	502	506	509	510	508	314
155°	574	576	577	580	578	264
165°	625	624	624	628	625	176
175°	650	648	647	651	648	62
180°	651	651	651	651	651	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.1	1536.1	1536.1	1536.1	1536.1
2.5°	1544.9	1537.5	1521.3	1536.1	1533.1
5°	1536.1	1530.2	1513.9	1525.7	1522.8
7.5°	1525.7	1516.9	1500.6	1512.4	1509.5
10°	1509.5	1499.1	1481.4	1493.2	1488.8
12.5°	1487.3	1478.5	1460.7	1468.1	1465.2
15°	1462.2	1453.4	1434.2	1440.1	1432.7
17.5°	1431.2	1422.3	1403.1	1410.5	1403.1
20°	1397.2	1388.4	1367.7	1372.1	1366.2
22.5°	1363.3	1350.0	1330.8	1330.8	1327.8
25°	1323.4	1311.6	1286.5	1289.4	1286.5
27.5°	1279.1	1268.7	1249.5	1245.1	1237.7
30°	1234.8	1222.9	1200.8	1196.4	1190.5
32.5°	1187.5	1178.6	1155.0	1146.1	1140.2
35°	1141.7	1126.9	1103.3	1094.4	1087.1
37.5°	1090.0	1076.7	1053.1	1042.8	1035.4
40°	1036.8	1025.0	1001.4	988.1	982.2
42.5°	985.2	973.3	949.7	934.9	926.1
45°	929.0	918.7	896.5	880.3	874.4
47.5°	874.4	864.0	840.4	824.2	815.3
50°	816.8	809.4	788.7	768.0	760.6
52.5°	760.6	750.3	731.1	714.9	704.5
55°	703.0	694.2	676.5	658.7	651.4
57.5°	645.4	638.1	618.9	601.1	595.2
60°	587.8	581.9	561.3	545.0	540.6
62.5°	531.7	521.4	506.6	491.8	485.9
65°	474.1	465.3	450.5	437.2	429.8
67.5°	415.0	407.6	394.4	384.0	378.1
70°	360.4	354.5	341.2	330.8	324.9
72.5°	304.3	298.4	291.0	280.6	276.2
75°	248.1	245.2	237.8	228.9	231.9
77.5°	197.9	192.0	189.1	184.6	180.2
80°	147.7	146.2	143.3	138.8	135.9
82.5°	100.4	100.4	99.0	93.1	93.1
85°	60.6	59.1	57.6	53.2	51.7
87.5°	26.6	23.6	20.7	16.2	14.8
90°	0.5	7.1	19.2	18.1	18.7
92.5°	12.1	16.5	17.0	17.6	17.6
95°	28.6	34.1	35.2	35.2	34.1
97.5°	47.8	52.7	54.9	54.9	54.9
100°	69.8	74.2	75.8	75.8	75.3
102.5°	92.8	96.1	98.3	98.9	98.3
105°	118.1	119.8	120.9	122.0	122.0
107.5°	143.4	145.6	145.6	146.1	143.4
110°	167.6	170.9	170.9	170.9	169.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	193.9	197.2	196.7	195.0	193.9
115°	219.8	223.1	222.0	221.4	219.8
117.5°	245.6	250.0	247.2	245.6	243.9
120°	271.4	275.8	271.4	271.4	269.8
122.5°	295.0	300.5	297.8	296.1	295.0
125°	319.7	324.7	323.0	321.4	320.8
127.5°	343.9	350.0	347.8	345.6	343.9
130°	366.4	373.6	372.5	371.4	369.2
132.5°	391.7	397.2	397.8	395.0	393.4
135°	413.7	419.7	420.8	420.3	418.6
137.5°	437.9	442.8	443.9	443.4	441.2
140°	459.3	464.2	467.0	467.0	464.8
142.5°	481.3	486.2	487.9	488.4	486.2
145°	502.1	506.0	509.3	509.8	507.6
147.5°	520.8	525.8	528.0	529.1	526.9
150°	540.1	543.3	545.5	547.2	545.5
152.5°	557.1	560.4	563.1	565.3	563.1
155°	574.1	575.8	577.4	580.2	578.5
157.5°	588.9	590.0	591.1	595.0	592.2
160°	602.1	603.2	603.8	607.1	604.9
162.5°	614.2	614.2	614.8	618.6	615.9
165°	624.7	624.1	624.1	628.0	625.2
167.5°	634.0	632.3	632.3	636.2	633.4
170°	641.1	639.5	638.9	642.8	639.5
172.5°	646.1	644.4	643.9	647.7	644.4
175°	649.9	648.3	647.2	651.0	647.7
177.5°	652.1	650.5	649.4	652.7	649.4
180°	651.0	651.0	651.0	651.0	651.0

(END OF REPORT)