

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: P1008188

Luminaire Tested: S122DIP-B675D530UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008188
REPORT IS A COMBINATION OF REPORTS P984561 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D530UB2750-4F0-XX-W2A-F_5000K
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

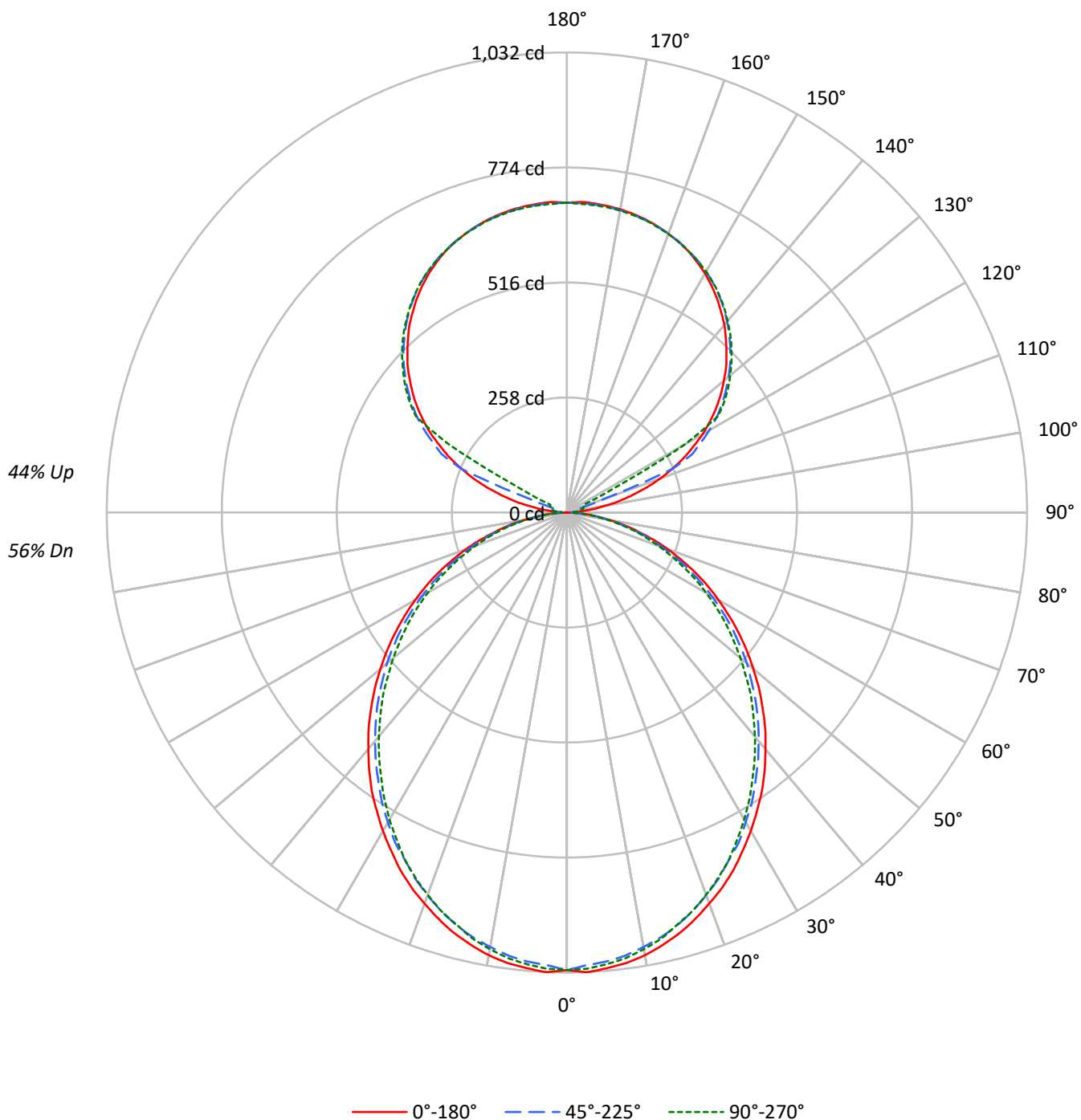
Lumens per Lamp: N/A
Luminaire Lumens: 4649.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.3
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62
1	99	95	91	87	92	88	85	82	76	74	71	65	63	61	55	53	52
2	90	83	77	71	84	77	72	67	67	63	59	57	54	51	48	46	44
3	82	73	65	59	76	68	61	56	59	54	50	50	47	43	43	40	37
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28
6	64	52	43	38	59	48	41	36	42	36	32	37	32	28	31	28	25
7	59	47	39	33	55	44	37	31	38	32	28	33	29	25	28	25	22
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	23	20
9	51	39	31	26	47	36	30	25	32	26	23	28	23	20	24	21	18
10	48	36	28	23	44	34	27	22	30	24	20	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16246	16246	16246
5°	16272	15485	15375
10°	16139	14779	14486
15°	15903	14068	13550
20°	15583	13295	12665
25°	15265	12487	11780
30°	14865	11728	10853
35°	14487	10926	9941
40°	14020	10138	9078
45°	13556	9353	8234
50°	13050	8556	7357
55°	12516	7703	6527
60°	11916	6780	5664
65°	11262	5842	4757
70°	10428	4815	3841
75°	9275	3712	2965
80°	7880	2522	1909
85°	5721	1174	811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13556 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	2.1
10°-20°	271.8	5.8
20°-30°	399.4	8.6
30°-40°	463.9	10.0
40°-50°	463.3	10.0
50°-60°	404.0	8.7
60°-70°	298.6	6.4
70°-80°	169.0	3.6
80°-90°	45.8	1.0
90°-100°	22.9	0.5
100°-110°	85.4	1.8
110°-120°	226.5	4.9
120°-130°	375.7	8.1
130°-140°	399.0	8.6
140°-150°	370.9	8.0
150°-160°	298.2	6.4
160°-170°	192.1	4.1
170°-180°	66.1	1.4
0°-30°	767.7	16.5
0°-40°	1231.6	26.5
0°-60°	2098.9	45.1
0°-90°	2612.3	56.2
90°-120°	334.8	7.2
90°-150°	1480.4	31.8
90°-180°	2037.0	43.8
0°-180°	4649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1026	1022	1012	1019	1017	97
15°	977	971	958	962	957	275
25°	884	876	860	862	860	407
35°	763	753	737	731	726	476
45°	621	614	599	588	584	479
55°	470	464	452	440	435	420
65°	317	311	301	292	287	313
75°	166	164	159	153	155	177
85°	40	40	38	36	34	45
90°	0	6	10	13	14	4
95°	33	16	20	22	22	39
105°	153	168	31	36	38	163
115°	289	298	310	77	41	285
125°	409	415	425	428	430	365
135°	506	514	518	523	522	391
145°	587	586	595	598	596	367
155°	646	642	648	650	646	298
165°	681	678	679	683	679	192
175°	696	693	694	697	692	66
180°	695	695	695	695	695	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.3	1026.3	1026.3	1026.3	1026.3
2.5°	1032.2	1027.3	1016.4	1026.3	1024.3
5°	1026.3	1022.3	1011.5	1019.4	1017.4
7.5°	1019.4	1013.4	1002.6	1010.5	1008.5
10°	1008.5	1001.6	989.8	997.7	994.7
12.5°	993.7	987.8	975.9	980.9	978.9
15°	976.9	971.0	958.2	962.1	957.2
17.5°	956.2	950.3	937.5	942.4	937.5
20°	933.5	927.6	913.8	916.7	912.8
22.5°	910.8	901.9	889.1	889.1	887.1
25°	884.2	876.3	859.5	861.5	859.5
27.5°	854.6	847.7	834.8	831.9	826.9
30°	825.0	817.1	802.3	799.3	795.4
32.5°	793.4	787.5	771.7	765.8	761.8
35°	762.8	752.9	737.1	731.2	726.3
37.5°	728.3	719.4	703.6	696.7	691.7
40°	692.7	684.8	669.1	660.2	656.2
42.5°	658.2	650.3	634.5	624.6	618.7
45°	620.7	613.8	599.0	588.1	584.2
47.5°	584.2	577.3	561.5	550.6	544.7
50°	545.7	540.8	527.0	513.1	508.2
52.5°	508.2	501.3	488.5	477.6	470.7
55°	469.7	463.8	452.0	440.1	435.2
57.5°	431.2	426.3	413.5	401.6	397.7
60°	392.7	388.8	375.0	364.1	361.2
62.5°	355.2	348.3	338.5	328.6	324.7
65°	316.8	310.8	301.0	292.1	287.2
67.5°	277.3	272.4	263.5	256.6	252.6
70°	240.8	236.8	228.0	221.0	217.1
72.5°	203.3	199.3	194.4	187.5	184.5
75°	165.8	163.8	158.9	153.0	154.9
77.5°	132.2	128.3	126.3	123.3	120.4
80°	98.7	97.7	95.7	92.8	90.8
82.5°	67.1	67.1	66.1	62.2	62.2
85°	40.5	39.5	38.5	35.5	34.5
87.5°	17.8	15.8	13.8	10.9	9.9
90°	0.5	6.0	10.1	12.6	13.6
92.5°	12.6	10.6	12.1	13.1	13.6
95°	32.7	16.1	19.6	22.1	21.6
97.5°	58.8	17.6	25.6	27.1	27.6
100°	89.0	20.1	28.7	32.7	33.7
102.5°	122.2	121.2	29.7	35.2	36.7
105°	152.8	167.9	30.7	36.2	38.2
107.5°	188.5	201.1	31.7	37.2	39.2
110°	222.7	233.3	88.0	37.7	39.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	254.9	263.9	255.4	38.7	40.2
115°	289.1	297.6	310.2	77.4	41.2
117.5°	318.7	328.8	337.3	265.4	133.7
120°	351.9	359.4	368.5	374.5	306.7
122.5°	380.1	388.1	398.2	401.2	401.7
125°	408.7	415.2	424.8	428.3	429.8
127.5°	434.9	441.9	449.4	454.5	455.0
130°	459.5	467.5	473.1	478.6	478.1
132.5°	484.6	491.2	496.7	501.2	500.7
135°	505.7	513.8	518.3	523.3	522.3
137.5°	527.9	533.9	538.9	543.9	542.4
140°	549.5	553.5	559.0	563.5	561.0
142.5°	567.6	571.1	577.6	581.6	579.1
145°	586.7	586.2	594.7	598.2	595.7
147.5°	603.3	601.8	610.3	612.8	610.8
150°	619.3	615.8	623.9	626.9	624.4
152.5°	632.9	628.9	636.4	639.5	635.9
155°	646.0	641.5	647.5	650.5	646.5
157.5°	656.5	652.5	657.1	660.6	656.5
160°	665.6	662.6	665.6	668.6	665.1
162.5°	673.6	670.6	673.1	676.7	672.1
165°	680.7	677.7	679.2	682.7	679.2
167.5°	686.2	683.2	684.7	688.2	683.7
170°	690.7	687.7	688.7	692.2	687.7
172.5°	693.7	690.7	691.7	695.3	690.7
175°	696.3	692.7	693.7	697.3	692.2
177.5°	697.3	693.7	694.3	697.8	693.2
180°	694.8	694.8	694.8	694.8	694.8

(END OF REPORT)