

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: P1009305

Luminaire Tested: S122DIP-B675D530UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009305
REPORT IS A COMBINATION OF REPORTS P984546 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D530UB27-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

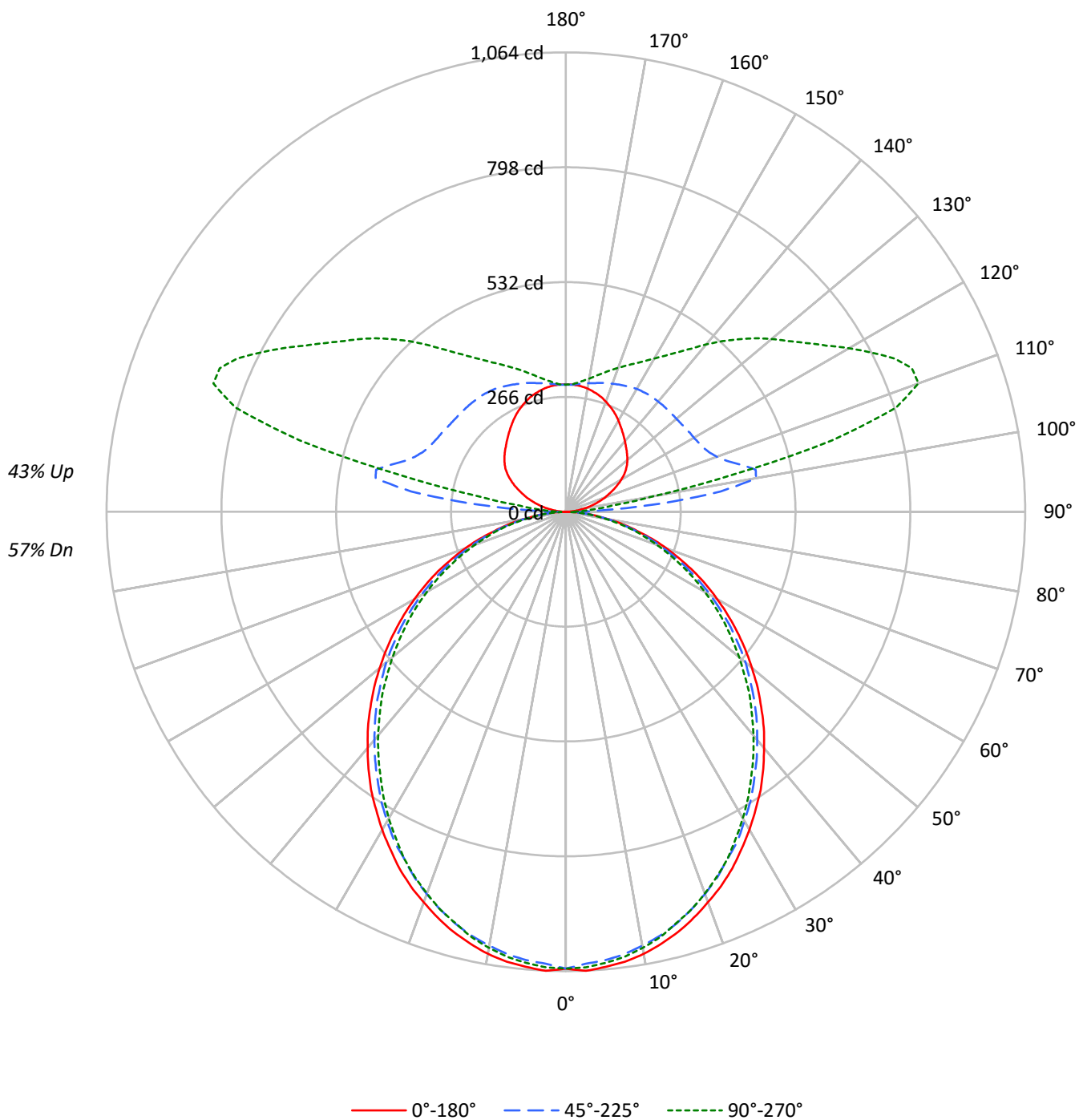
Lumens per Lamp: N/A
Luminaire Lumens: 4747.3 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	72	65	64	62	55	54	53
2	90	83	77	71	84	77	72	67	67	63	59	57	54	52	48	46	44
3	83	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38
4	76	65	57	50	70	60	53	48	53	47	43	45	41	37	38	35	33
5	69	58	49	43	64	54	47	41	47	41	37	41	36	33	35	31	28
6	64	52	43	38	59	48	41	36	42	37	32	37	32	29	31	28	25
7	59	47	39	33	55	44	37	31	39	33	28	33	29	25	29	25	22
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	26	23	20
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	24	21	18
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16749	16749	16749
5°	16776	15964	15853
10°	16640	15238	14936
15°	16396	14504	13971
20°	16067	13707	13057
25°	15738	12875	12146
30°	15326	12092	11188
35°	14937	11266	10249
40°	14455	10451	9361
45°	13978	9644	8489
50°	13454	8821	7586
55°	12905	7942	6730
60°	12287	6990	5840
65°	11610	6022	4904
70°	10749	4963	3959
75°	9560	3826	3057
80°	8119	2601	1968
85°	5890	1211	837

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13978 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	2.1
10°-20°	280.2	5.9
20°-30°	411.8	8.7
30°-40°	478.3	10.1
40°-50°	477.7	10.1
50°-60°	416.5	8.8
60°-70°	307.9	6.5
70°-80°	174.2	3.7
80°-90°	47.9	1.0
90°-100°	119.4	2.5
100°-110°	403.6	8.5
110°-120°	424.3	8.9
120°-130°	348.9	7.3
130°-140°	280.4	5.9
140°-150°	211.8	4.5
150°-160°	148.9	3.1
160°-170°	87.7	1.8
170°-180°	28.5	0.6
0°-30°	791.6	16.7
0°-40°	1269.8	26.7
0°-60°	2164.0	45.6
0°-90°	2693.9	56.7
90°-120°	947.3	20.0
90°-150°	1788.4	37.7
90°-180°	2053.0	43.2
0°-180°	4747.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1058	1058	1058	1058	1058	
5°	1058	1054	1043	1051	1049	100
15°	1007	1001	988	992	987	284
25°	912	904	886	888	886	419
35°	786	776	760	754	749	491
45°	640	633	618	606	602	494
55°	484	478	466	454	449	433
65°	327	320	310	301	296	323
75°	171	169	164	158	160	182
85°	42	41	40	37	36	46
90°	1	8	19	18	19	4
95°	20	49	222	84	65	20
105°	69	104	420	750	638	73
115°	122	154	351	725	840	121
125°	170	201	338	587	681	151
135°	199	238	334	493	565	154
145°	228	262	332	412	451	143
155°	259	280	322	364	379	119
165°	282	291	309	327	332	80
175°	294	294	297	300	300	28
180°	294	294	294	294	294	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.1	1058.1	1058.1	1058.1	1058.1
2.5°	1064.2	1059.1	1047.9	1058.1	1056.1
5°	1058.1	1054.0	1042.8	1051.0	1049.0
7.5°	1051.0	1044.9	1033.7	1041.8	1039.8
10°	1039.8	1032.7	1020.5	1028.6	1025.6
12.5°	1024.5	1018.4	1006.2	1011.3	1009.3
15°	1007.2	1001.1	987.9	992.0	986.9
17.5°	985.9	979.8	966.5	971.6	966.5
20°	962.5	956.4	942.1	945.2	941.1
22.5°	939.1	929.9	916.7	916.7	914.7
25°	911.6	903.5	886.2	888.2	886.2
27.5°	881.1	874.0	860.7	857.7	852.6
30°	850.6	842.4	827.2	824.1	820.0
32.5°	818.0	811.9	795.6	789.5	785.4
35°	786.5	776.3	760.0	753.9	748.8
37.5°	750.9	741.7	725.4	718.3	713.2
40°	714.2	706.1	689.8	680.6	676.6
42.5°	678.6	670.5	654.2	644.0	637.9
45°	640.0	632.8	617.6	606.4	602.3
47.5°	602.3	595.2	578.9	567.7	561.6
50°	562.6	557.5	543.3	529.1	524.0
52.5°	524.0	516.8	503.6	492.4	485.3
55°	484.3	478.2	466.0	453.8	448.7
57.5°	444.6	439.5	426.3	414.1	410.0
60°	404.9	400.9	386.6	375.4	372.4
62.5°	366.3	359.1	349.0	338.8	334.7
65°	326.6	320.5	310.3	301.2	296.1
67.5°	285.9	280.8	271.6	264.5	260.5
70°	248.2	244.2	235.0	227.9	223.8
72.5°	209.6	205.5	200.4	193.3	190.3
75°	170.9	168.9	163.8	157.7	159.7
77.5°	136.3	132.3	130.2	127.2	124.1
80°	101.7	100.7	98.7	95.6	93.6
82.5°	69.2	69.2	68.2	64.1	64.1
85°	41.7	40.7	39.7	36.6	35.6
87.5°	18.3	16.3	14.2	11.2	10.2
90°	0.6	7.6	19.3	18.4	18.7
92.5°	8.5	26.9	87.2	40.2	34.6
95°	19.8	48.7	222.0	83.8	64.6
97.5°	29.5	64.2	361.9	168.2	108.2
100°	43.6	78.8	447.5	335.0	202.8
102.5°	56.6	91.8	450.3	566.4	395.3
105°	69.1	104.2	419.7	750.2	638.3
107.5°	82.7	116.6	391.4	816.8	802.0
110°	96.3	129.4	372.1	806.0	868.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	108.7	141.6	359.7	769.4	867.7
115°	121.8	153.8	351.2	724.7	840.0
117.5°	135.4	166.0	346.6	682.0	798.1
120°	147.8	177.9	342.7	643.7	757.8
122.5°	159.7	190.0	340.4	614.0	715.9
125°	169.9	201.0	337.6	587.0	681.4
127.5°	178.4	211.6	335.9	564.2	649.1
130°	185.8	220.9	334.7	540.9	622.5
132.5°	192.6	230.0	334.2	516.8	594.7
135°	199.4	237.9	333.6	493.4	564.7
137.5°	205.6	244.6	333.6	469.6	535.8
140°	213.0	251.0	333.0	448.6	505.8
142.5°	220.3	256.0	333.0	428.5	475.8
145°	227.7	261.6	331.9	412.0	450.9
147.5°	235.6	266.2	330.2	397.6	428.8
150°	243.6	270.7	328.5	385.2	409.5
152.5°	251.5	275.2	325.7	374.6	393.1
155°	258.8	279.6	322.3	364.5	378.9
157.5°	265.1	282.9	318.9	354.8	366.5
160°	271.3	286.3	315.5	345.2	354.6
162.5°	277.5	288.8	312.7	336.2	343.2
165°	282.1	290.6	308.7	327.4	332.5
167.5°	286.0	292.2	305.3	319.5	322.3
170°	290.0	293.2	302.5	312.1	313.2
172.5°	292.3	294.0	299.1	305.6	305.9
175°	294.0	294.2	296.8	300.5	299.6
177.5°	295.1	294.5	294.5	296.8	295.1
180°	294.5	294.5	294.5	294.5	294.5

(END OF REPORT)