

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: P1009311

Luminaire Tested: S122DIP-B675D530UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009311
REPORT IS A COMBINATION OF REPORTS P984567 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D530UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

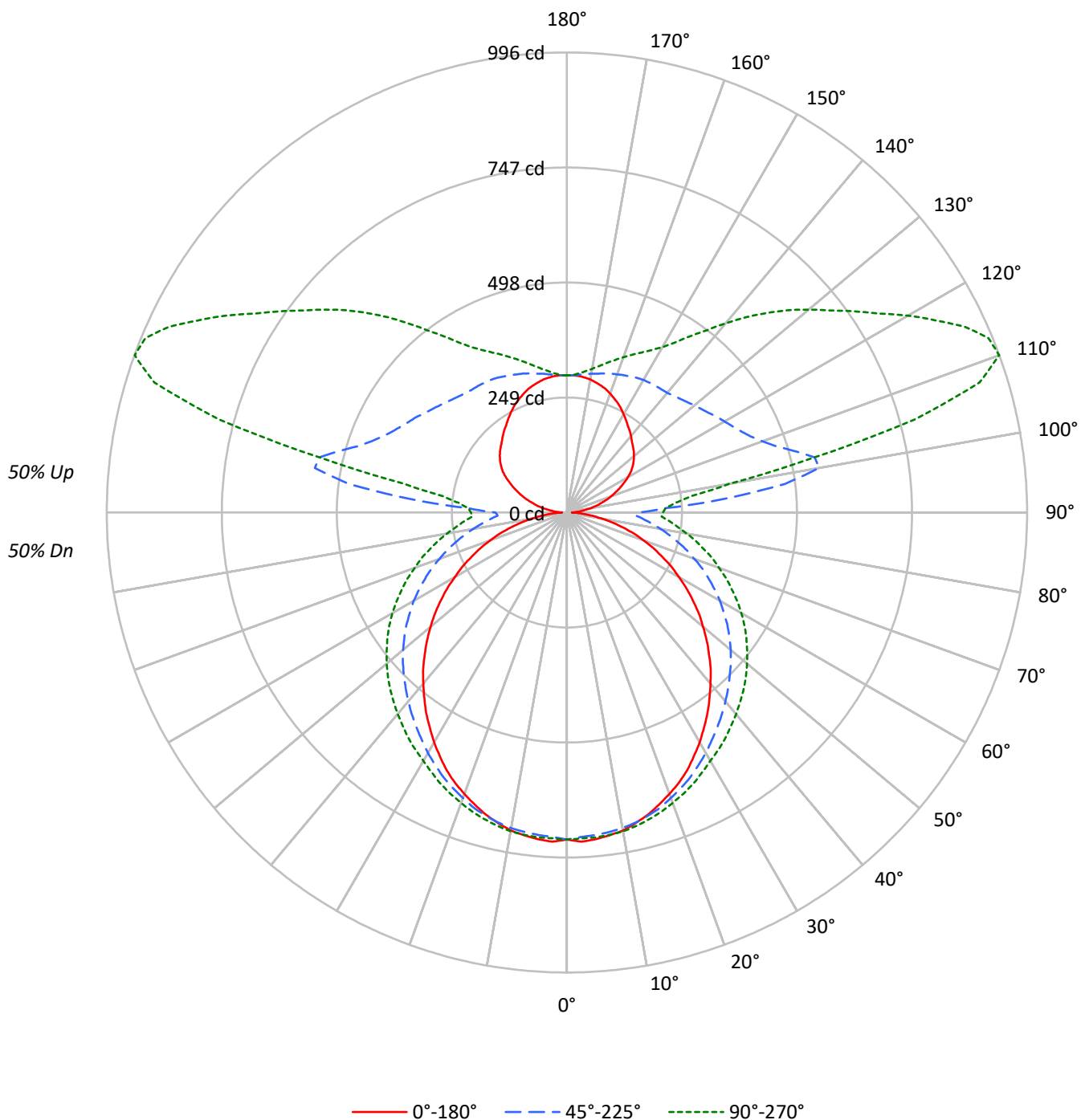
Lumens per Lamp: N/A
Luminaire Lumens: 4775.4 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RCR																	
0	107	107	107	107	99	99	99	99	84	84	84		69	69	69		56
1	96	91	87	83	89	84	80	77	71	68	65		59	57	55		47
2	87	79	72	66	80	73	67	62	61	57	53		51	47	45		41
3	79	69	61	55	72	64	57	51	54	48	44		44	40	37		36
4	72	61	52	46	66	56	49	43	47	42	37		39	35	31		32
5	66	54	45	39	60	50	42	36	42	36	32		35	30	27		28
6	61	48	40	34	56	45	37	31	38	32	27		32	27	23		26
7	56	43	35	29	51	40	33	27	34	28	24		29	24	20		23
8	52	39	31	26	48	36	29	24	31	25	21		26	21	18		21
9	48	36	28	23	44	33	26	21	28	23	19		24	19	16		20
10	45	33	25	20	42	30	24	19	26	21	17		22	18	15		18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.4
10°-20°	192.5	4.0
20°-30°	291.7	6.1
30°-40°	355.2	7.4
40°-50°	382.2	8.0
50°-60°	371.2	7.8
60°-70°	324.2	6.8
70°-80°	249.5	5.2
80°-90°	169.0	3.5
90°-100°	235.7	4.9
100°-110°	491.4	10.3
110°-120°	483.6	10.1
120°-130°	382.9	8.0
130°-140°	295.8	6.2
140°-150°	215.8	4.5
150°-160°	150.2	3.1
160°-170°	88.4	1.9
170°-180°	28.8	0.6
0°-30°	551.4	11.5
0°-40°	906.6	19.0
0°-60°	1660.0	34.8
0°-90°	2402.7	50.3
90°-120°	1210.7	25.4
90°-150°	2105.3	44.1
90°-180°	2373.0	49.7
0°-180°	4775.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	11	78	155	195	208	9
95°	28	106	342	242	234	27
105°	75	140	512	881	779	80
115°	127	170	416	823	951	126
125°	174	205	375	655	759	155
135°	202	241	348	530	611	156
145°	230	264	335	422	466	144
155°	261	282	325	368	382	120
165°	284	293	311	330	335	80
175°	296	297	299	303	302	28
180°	297	297	297	297	297	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	10.9	77.6	154.9	195.1	207.7
92.5°	17.8	90.8	214.2	206.9	213.5
95°	28.2	105.6	342.0	241.6	234.4
97.5°	36.9	116.2	475.9	318.5	270.2
100°	51.2	124.6	554.0	478.6	356.4
102.5°	63.3	132.6	549.6	703.8	542.5
105°	74.8	140.0	511.7	881.0	779.4
107.5°	88.5	147.5	475.9	939.9	936.4
110°	101.2	155.2	450.3	920.8	995.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	113.8	163.4	430.5	876.8	987.2
115°	126.9	170.5	415.8	823.4	951.0
117.5°	139.7	178.7	404.1	773.1	900.5
120°	152.2	186.6	393.9	726.4	852.8
122.5°	164.2	195.8	385.5	689.2	801.2
125°	173.5	204.9	375.4	654.8	759.2
127.5°	182.1	214.4	367.5	623.5	718.4
130°	189.5	223.8	360.3	592.8	683.3
132.5°	196.4	233.0	353.5	561.3	648.1
135°	202.1	241.0	347.8	530.5	610.8
137.5°	208.4	247.8	342.7	499.4	573.3
140°	215.8	253.1	338.1	471.0	534.8
142.5°	223.3	258.2	336.0	444.5	497.3
145°	229.7	264.0	334.8	421.9	466.1
147.5°	237.7	268.6	333.1	402.1	436.6
150°	245.7	273.2	331.4	388.5	413.1
152.5°	253.7	277.7	328.5	378.0	396.5
155°	261.1	282.0	325.1	367.6	382.2
157.5°	267.4	285.4	321.7	358.0	369.7
160°	273.7	288.8	318.3	348.2	357.7
162.5°	280.0	291.4	315.4	339.1	346.2
165°	284.5	293.1	311.4	330.2	335.4
167.5°	288.5	294.8	308.0	322.2	325.1
170°	292.5	295.6	305.1	314.8	316.0
172.5°	294.8	296.6	301.7	308.2	308.5
175°	296.5	296.8	299.4	303.1	302.3
177.5°	297.7	297.1	297.1	299.4	297.7
180°	297.1	297.1	297.1	297.1	297.1

(END OF REPORT)