

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: P1009329

Luminaire Tested: S122DIP-B675D530UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009329
REPORT IS A COMBINATION OF REPORTS P984585 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D530UB40-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

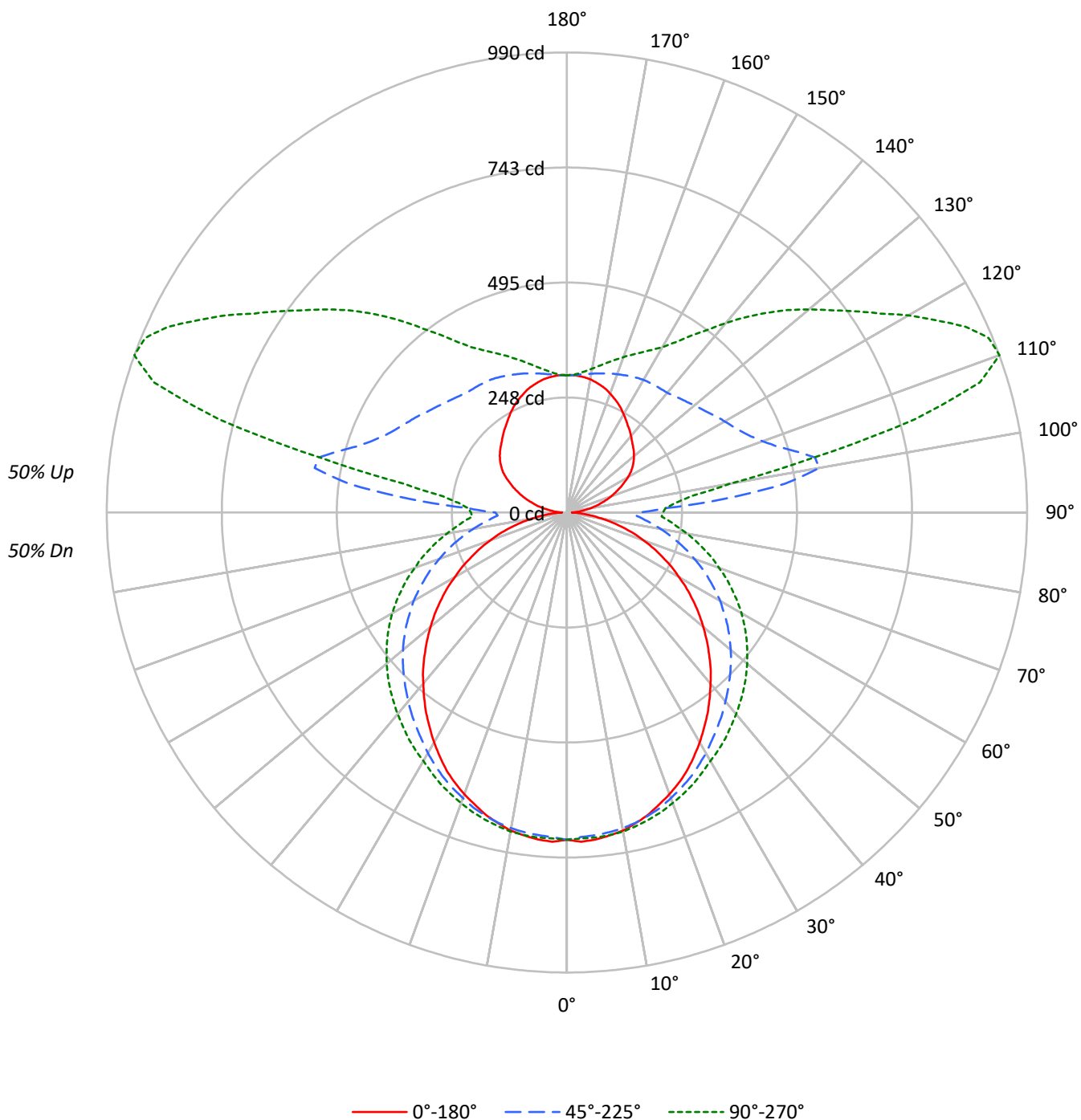
Lumens per Lamp: N/A
Luminaire Lumens: 4749.3 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	11147	11147	11147
5°	11197	10672	10612
10°	11122	10301	10152
15°	10965	9919	9680
20°	10767	9518	9232
25°	10573	9134	8827
30°	10297	8743	8425
35°	10020	8366	8130
40°	9729	8041	7836
45°	9450	7745	7580
50°	9152	7473	7328
55°	8839	7184	7072
60°	8454	6883	6801
65°	8055	6537	6491
70°	7600	6165	6156
75°	7021	5793	5842
80°	6108	5405	5514
85°	5184	5040	5232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9450 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	1.4
10°-20°	191.5	4.0
20°-30°	290.1	6.1
30°-40°	353.3	7.4
40°-50°	380.1	8.0
50°-60°	369.1	7.8
60°-70°	322.4	6.8
70°-80°	248.1	5.2
80°-90°	168.1	3.5
90°-100°	234.4	4.9
100°-110°	488.7	10.3
110°-120°	481.0	10.1
120°-130°	380.9	8.0
130°-140°	294.2	6.2
140°-150°	214.7	4.5
150°-160°	149.4	3.1
160°-170°	88.0	1.9
170°-180°	28.6	0.6
0°-30°	548.3	11.5
0°-40°	901.6	19.0
0°-60°	1650.8	34.8
0°-90°	2389.3	50.3
90°-120°	1204.2	25.4
90°-150°	2094.0	44.1
90°-180°	2360.0	49.7
0°-180°	4749.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	704	704	704	704	704	
5°	706	703	697	703	702	67
15°	674	676	676	685	684	190
25°	612	620	629	641	644	282
35°	528	545	564	587	594	330
45°	433	460	496	528	538	334
55°	332	368	422	458	472	297
65°	227	277	337	379	392	225
75°	126	183	248	292	305	133
85°	37	100	165	208	222	39
90°	11	77	154	194	207	8
95°	28	105	340	240	233	27
105°	74	139	509	876	775	79
115°	126	170	414	819	946	125
125°	172	204	373	651	755	154
135°	201	240	346	528	607	156
145°	228	263	333	420	464	144
155°	260	280	323	366	380	120
165°	283	292	310	328	334	80
175°	295	295	298	302	301	28
180°	296	296	296	296	296	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	704.2	704.2	704.2	704.2	704.2
2.5°	709.3	706.2	699.1	704.2	702.2
5°	706.2	703.2	697.1	703.2	702.2
7.5°	701.1	699.1	694.0	701.1	700.1
10°	695.0	693.0	689.9	698.1	697.1
12.5°	684.8	685.8	683.8	692.0	690.9
15°	673.6	675.6	675.6	684.8	683.8
17.5°	659.3	663.4	666.4	675.6	675.6
20°	645.0	650.1	654.2	665.4	665.4
22.5°	629.7	635.8	641.9	653.2	655.2
25°	612.4	619.5	628.7	640.9	644.0
27.5°	591.9	603.2	613.4	628.7	630.7
30°	571.5	584.8	598.1	614.4	617.5
32.5°	549.1	564.4	580.7	600.1	606.2
35°	527.6	545.0	564.4	586.8	594.0
37.5°	504.2	523.6	548.1	572.5	579.7
40°	480.7	503.1	530.7	557.2	566.4
42.5°	458.2	480.7	513.4	543.0	552.1
45°	432.7	460.3	496.0	527.6	537.8
47.5°	408.2	437.8	478.7	511.3	522.5
50°	382.7	414.4	460.3	495.0	506.2
52.5°	358.2	391.9	440.9	476.6	488.9
55°	331.7	368.4	421.5	458.2	471.5
57.5°	306.2	347.0	400.1	439.9	453.1
60°	278.6	322.5	380.7	419.5	433.7
62.5°	254.1	300.1	358.2	400.1	413.3
65°	226.6	276.6	336.8	378.6	391.9
67.5°	202.1	254.1	315.4	357.2	371.5
70°	175.5	228.6	291.9	335.8	348.0
72.5°	151.0	206.2	270.5	313.3	328.6
75°	125.5	182.7	248.0	291.9	305.2
77.5°	101.0	160.2	226.6	270.5	284.7
80°	76.5	138.8	205.1	248.0	262.3
82.5°	56.1	117.4	184.7	227.6	240.9
85°	36.7	100.0	165.3	208.2	222.5
87.5°	22.5	83.7	149.0	190.8	204.1
90°	10.8	77.1	154.0	194.0	206.6
92.5°	17.7	90.3	213.0	205.6	212.3
95°	28.1	105.0	340.2	240.2	233.2
97.5°	36.7	115.5	473.4	316.8	268.8
100°	50.9	123.9	551.1	476.0	354.5
102.5°	62.9	131.8	546.7	700.0	539.6
105°	74.4	139.2	508.9	876.2	775.2
107.5°	88.1	146.6	473.3	934.8	931.4
110°	100.7	154.4	447.9	915.9	990.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	113.2	162.5	428.3	872.0	981.9
115°	126.3	169.6	413.6	819.1	945.9
117.5°	138.9	177.8	401.9	769.0	895.7
120°	151.4	185.5	391.8	722.4	848.2
122.5°	163.4	194.8	383.4	685.4	797.0
125°	172.5	203.8	373.4	651.4	755.1
127.5°	181.0	213.2	365.6	620.2	714.6
130°	188.4	222.6	358.4	589.6	679.7
132.5°	195.2	231.8	351.6	558.4	644.7
135°	201.1	239.7	345.9	527.7	607.4
137.5°	207.3	246.5	340.8	496.6	570.3
140°	214.7	251.8	336.2	468.5	532.0
142.5°	222.1	256.9	334.2	442.2	494.7
145°	228.5	262.6	333.0	419.6	463.6
147.5°	236.4	267.1	331.3	400.0	434.3
150°	244.4	271.6	329.6	386.5	410.9
152.5°	252.3	276.2	326.8	376.0	394.4
155°	259.7	280.4	323.4	365.7	380.2
157.5°	266.0	283.9	320.0	356.0	367.7
160°	272.2	287.3	316.6	346.4	355.8
162.5°	278.5	289.8	313.7	337.3	344.4
165°	283.0	291.6	309.7	328.5	333.6
167.5°	287.0	293.2	306.3	320.5	323.4
170°	291.0	294.2	303.5	313.2	314.3
172.5°	293.3	295.0	300.1	306.6	306.9
175°	295.0	295.2	297.8	301.5	300.6
177.5°	296.1	295.5	295.5	297.8	296.1
180°	295.5	295.5	295.5	295.5	295.5

(END OF REPORT)