

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: P1009284

Luminaire Tested: S122DIP-B675D330UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009284
REPORT IS A COMBINATION OF REPORTS P984525 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D330UB40-4F0-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

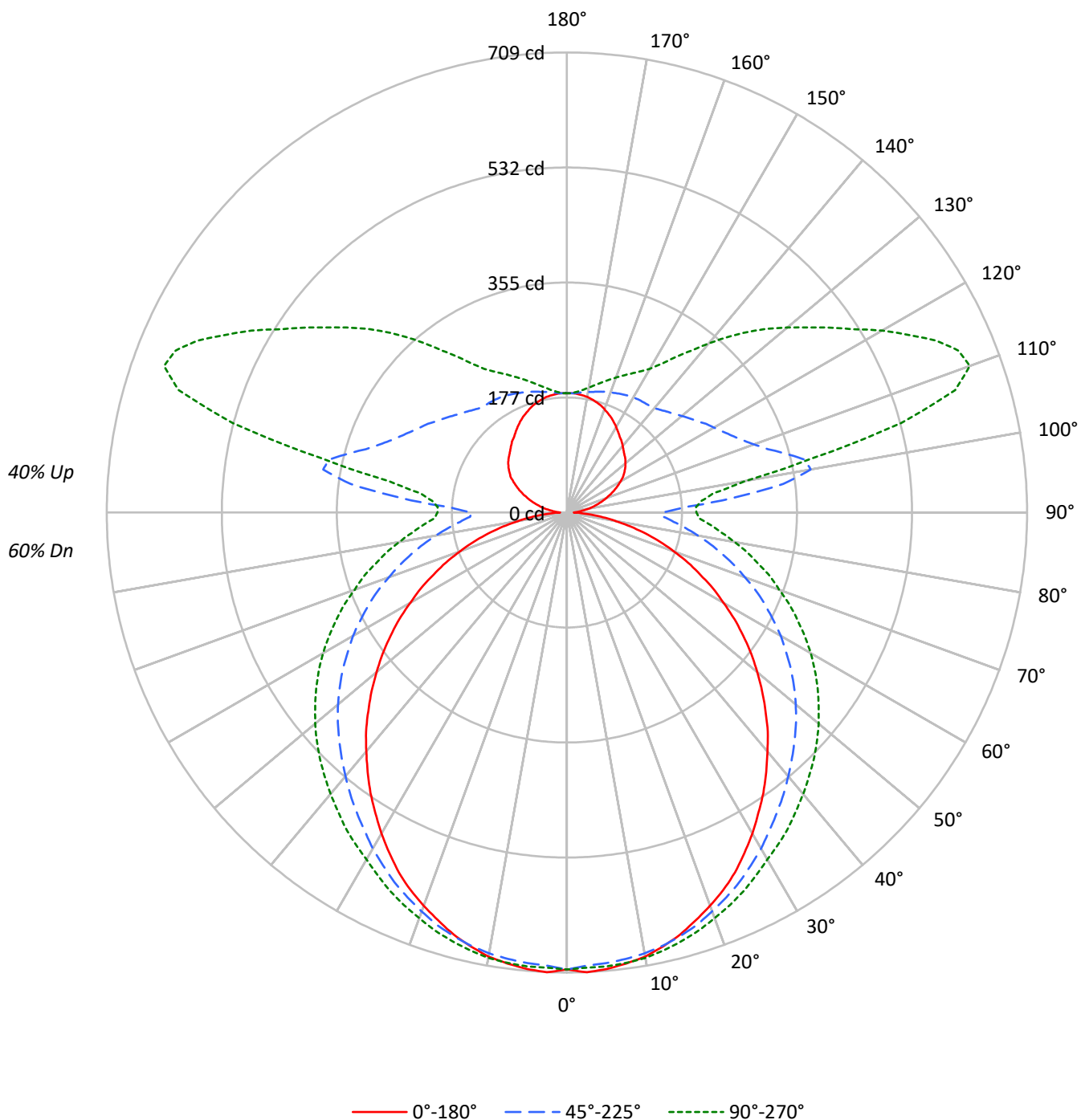
Lumens per Lamp: N/A
Luminaire Lumens: 3969.4 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65
1	98	93	88	84	91	87	83	79	75	72	69	65	62	60	55	53	52
2	89	80	73	67	82	75	69	64	65	60	56	56	52	49	47	45	42
3	81	70	62	55	75	65	58	52	57	51	46	49	44	41	41	38	35
4	73	62	53	46	68	58	50	44	50	44	39	43	38	34	37	33	30
5	67	55	46	39	62	51	43	37	45	38	33	39	33	29	33	29	26
6	62	49	40	34	57	46	38	32	40	34	29	35	30	26	30	26	22
7	57	44	36	30	53	41	34	28	36	30	25	32	26	23	27	23	20
8	53	40	32	26	49	38	30	25	33	27	22	29	24	20	25	21	18
9	49	37	29	23	46	34	27	22	30	24	20	26	21	18	23	19	16
10	46	33	26	21	43	32	25	20	28	22	18	24	20	16	21	17	14

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	1.7
10°-20°	191.5	4.8
20°-30°	290.1	7.3
30°-40°	353.3	8.9
40°-50°	380.1	9.6
50°-60°	369.1	9.3
60°-70°	322.4	8.1
70°-80°	248.1	6.3
80°-90°	167.3	4.2
90°-100°	189.1	4.8
100°-110°	335.6	8.5
110°-120°	320.0	8.1
120°-130°	248.5	6.3
130°-140°	187.9	4.7
140°-150°	134.3	3.4
150°-160°	92.9	2.3
160°-170°	54.7	1.4
170°-180°	17.8	0.4
0°-30°	548.3	13.8
0°-40°	901.6	22.7
0°-60°	1650.8	41.6
0°-90°	2388.6	60.2
90°-120°	844.7	21.3
90°-150°	1415.4	35.7
90°-180°	1581.0	39.8
0°-180°	3969.4	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	74	147	187	200	8
95°	21	86	256	208	209	19
105°	48	100	350	592	533	52
115°	80	111	280	544	627	79
125°	108	127	245	429	497	96
135°	125	149	219	340	393	97
145°	142	163	207	263	292	89
155°	162	174	201	227	236	74
165°	176	181	193	204	208	50
175°	183	184	185	188	187	17
180°	184	184	184	184	184	

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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°	10.6	74.2	146.7	187.0	199.5
92.5°	14.5	80.0	179.9	190.4	199.2
95°	20.6	86.5	255.9	208.4	208.7
97.5°	25.5	91.1	336.0	253.0	227.7
100°	34.3	94.1	381.3	348.8	277.5
102.5°	41.4	97.0	375.9	485.1	389.6
105°	48.2	99.8	349.7	591.6	533.0
107.5°	56.7	102.4	324.8	625.0	627.0
110°	64.2	105.2	306.7	610.1	660.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	72.0	108.8	291.8	580.2	652.6
115°	80.1	111.2	280.3	544.1	627.2
117.5°	87.6	114.8	270.4	510.2	592.9
120°	95.3	118.0	261.8	478.2	560.7
122.5°	102.8	122.6	254.2	452.5	525.3
125°	108.0	127.4	245.3	428.6	496.6
127.5°	113.3	133.0	238.2	406.1	468.3
130°	117.9	138.9	231.4	384.4	443.5
132.5°	122.2	144.4	224.8	362.3	419.1
135°	125.4	149.4	219.4	340.5	393.2
137.5°	129.3	153.7	214.3	318.5	367.0
140°	133.9	156.6	209.8	298.3	340.1
142.5°	138.5	159.8	207.8	279.6	314.2
145°	142.1	163.3	207.1	263.2	292.5
147.5°	147.0	166.1	206.0	249.1	271.6
150°	152.0	169.0	205.0	240.3	255.5
152.5°	156.9	171.8	203.2	233.8	245.3
155°	161.5	174.4	201.1	227.4	236.4
157.5°	165.4	176.5	199.0	221.4	228.7
160°	169.3	178.6	196.9	215.4	221.2
162.5°	173.2	180.2	195.1	209.8	214.2
165°	176.0	181.3	192.6	204.3	207.5
167.5°	178.5	182.4	190.5	199.3	201.1
170°	180.9	182.9	188.7	194.8	195.4
172.5°	182.4	183.4	186.6	190.6	190.8
175°	183.4	183.6	185.2	187.5	187.0
177.5°	184.1	183.8	183.8	185.2	184.1
180°	183.8	183.8	183.8	183.8	183.8

(END OF REPORT)