

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: P1008886

Luminaire Tested: S122DIP-B290D530UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008886
REPORT IS A COMBINATION OF REPORTS P983986 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D530UB40-4F0-XX-W2A-F
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

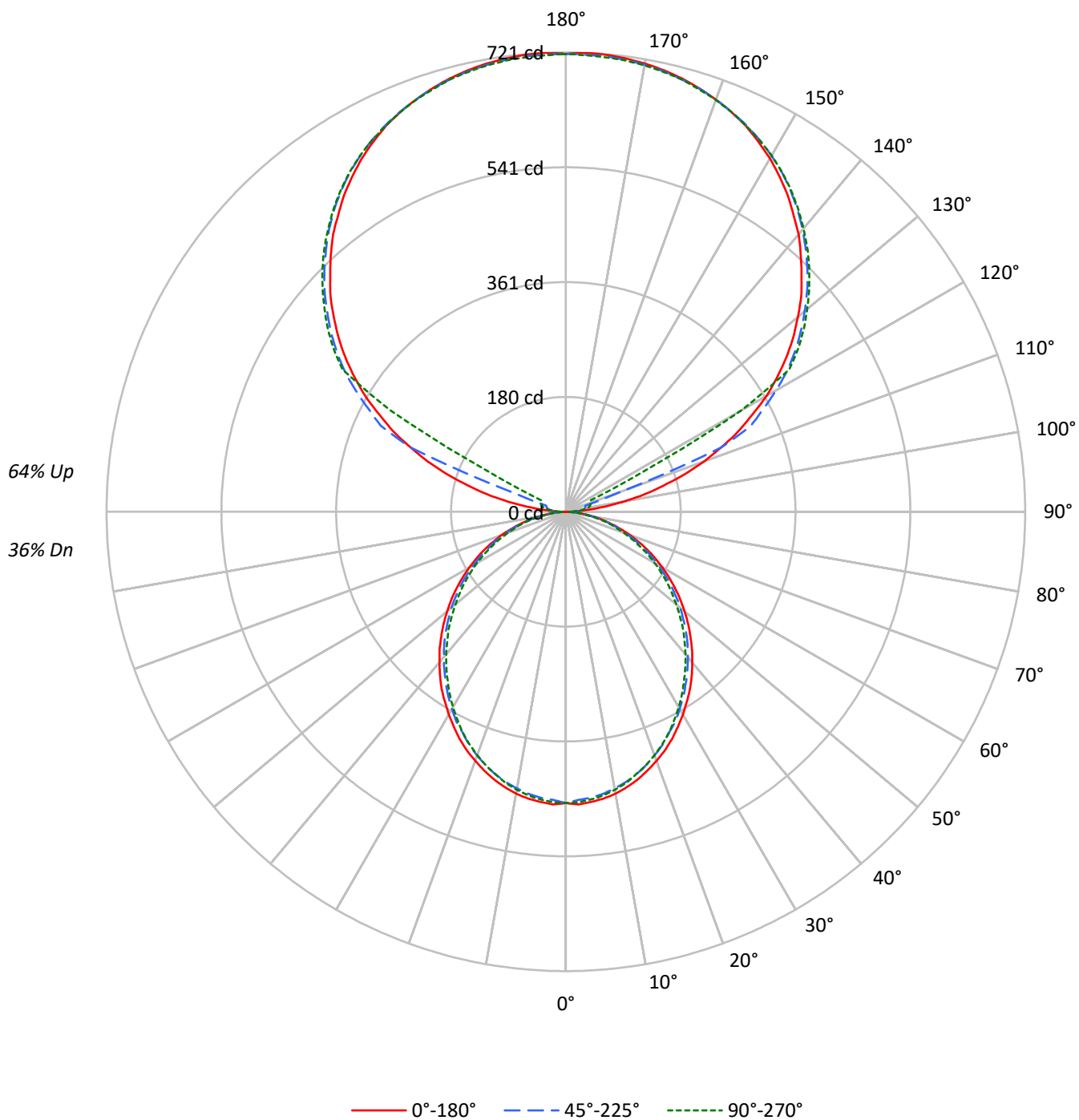
Lumens per Lamp: N/A
Luminaire Lumens: 3271.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	36		
1	95	90	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30		
2	86	79	73	68	78	72	66	62	58	54	51	45	43	41	33	32	30	25		
3	78	69	62	56	71	63	57	52	51	47	43	40	37	34	30	28	26	21		
4	72	61	54	48	65	56	49	44	45	40	36	35	32	29	26	24	22	18		
5	66	54	47	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16		
6	61	49	41	35	55	44	38	33	36	31	27	29	25	22	22	19	17	14		
7	56	44	36	31	50	40	33	28	33	28	24	26	22	20	20	17	15	12		
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	14	11		
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10		
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11	9		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7236	7236	7236
5°	7247	6897	6849
10°	7189	6583	6453
15°	7083	6266	6036
20°	6941	5921	5641
25°	6799	5561	5247
30°	6622	5223	4834
35°	6453	4866	4428
40°	6246	4515	4044
45°	6039	4166	3667
50°	5813	3811	3278
55°	5574	3431	2907
60°	5307	3019	2523
65°	5016	2603	2118
70°	4643	2144	1711
75°	4128	1654	1321
80°	3513	1123	849
85°	2543	521	362

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6039 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.3
10°-20°	121.1	3.7
20°-30°	177.9	5.4
30°-40°	206.6	6.3
40°-50°	206.4	6.3
50°-60°	179.9	5.5
60°-70°	133.0	4.1
70°-80°	75.3	2.3
80°-90°	21.1	0.6
90°-100°	23.7	0.7
100°-110°	88.3	2.7
110°-120°	234.3	7.2
120°-130°	388.6	11.9
130°-140°	412.7	12.6
140°-150°	383.6	11.7
150°-160°	308.4	9.4
160°-170°	198.7	6.1
170°-180°	68.4	2.1
0°-30°	342.0	10.5
0°-40°	548.6	16.8
0°-60°	934.9	28.6
0°-90°	1164.3	35.6
90°-120°	346.3	10.6
90°-150°	1531.2	46.8
90°-180°	2107.0	64.4
0°-180°	3271.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	457	457	457	457	457	
5°	457	455	450	454	453	43
15°	435	432	427	429	426	123
25°	394	390	383	384	383	181
35°	340	335	328	326	324	212
45°	276	273	267	262	260	213
55°	209	207	201	196	194	187
65°	141	138	134	130	128	139
75°	74	73	71	68	69	79
85°	18	18	17	16	15	20
90°	0	6	10	13	14	3
95°	34	17	20	23	22	40
105°	158	174	32	37	40	169
115°	299	308	321	80	43	294
125°	423	430	439	443	445	377
135°	523	531	536	541	540	404
145°	607	606	615	619	616	380
155°	668	664	670	673	669	308
165°	704	701	702	706	702	199
175°	720	716	718	721	716	69
180°	719	719	719	719	719	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.1	457.1	457.1	457.1	457.1
2.5°	459.8	457.6	452.7	457.1	456.2
5°	457.1	455.4	450.5	454.0	453.2
7.5°	454.0	451.4	446.6	450.1	449.2
10°	449.2	446.1	440.9	444.4	443.1
12.5°	442.6	440.0	434.7	436.9	436.0
15°	435.1	432.5	426.8	428.6	426.4
17.5°	425.9	423.3	417.6	419.8	417.6
20°	415.8	413.2	407.0	408.3	406.6
22.5°	405.7	401.7	396.0	396.0	395.1
25°	393.8	390.3	382.8	383.7	382.8
27.5°	380.6	377.6	371.9	370.5	368.3
30°	367.5	363.9	357.3	356.0	354.3
32.5°	353.4	350.8	343.7	341.1	339.3
35°	339.8	335.4	328.3	325.7	323.5
37.5°	324.4	320.4	313.4	310.3	308.1
40°	308.6	305.0	298.0	294.1	292.3
42.5°	293.2	289.7	282.6	278.2	275.6
45°	276.5	273.4	266.8	262.0	260.2
47.5°	260.2	257.1	250.1	245.3	242.6
50°	243.1	240.9	234.7	228.6	226.4
52.5°	226.4	223.3	217.6	212.7	209.7
55°	209.2	206.6	201.3	196.0	193.8
57.5°	192.1	189.9	184.2	178.9	177.1
60°	174.9	173.2	167.0	162.2	160.9
62.5°	158.2	155.2	150.8	146.4	144.6
65°	141.1	138.5	134.1	130.1	127.9
67.5°	123.5	121.3	117.4	114.3	112.5
70°	107.2	105.5	101.5	98.5	96.7
72.5°	90.5	88.8	86.6	83.5	82.2
75°	73.8	73.0	70.8	68.1	69.0
77.5°	58.9	57.1	56.3	54.9	53.6
80°	44.0	43.5	42.6	41.3	40.4
82.5°	29.9	29.9	29.4	27.7	27.7
85°	18.0	17.6	17.1	15.8	15.4
87.5°	7.9	7.0	6.2	4.8	4.4
90°	0.5	6.2	10.4	13.0	14.0
92.5°	13.0	10.9	12.5	13.5	14.0
95°	33.8	16.6	20.3	22.9	22.4
97.5°	60.8	18.2	26.5	28.1	28.6
100°	92.0	20.8	29.6	33.8	34.8
102.5°	126.4	125.3	30.7	36.4	38.0
105°	158.1	173.7	31.7	37.4	39.5
107.5°	195.0	208.0	32.8	38.5	40.6
110°	230.4	241.3	91.0	39.0	41.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	263.6	273.0	264.2	40.0	41.6
115°	299.0	307.8	320.8	80.1	42.6
117.5°	329.7	340.1	348.9	274.6	138.3
120°	364.0	371.8	381.1	387.4	317.2
122.5°	393.1	401.4	411.8	414.9	415.5
125°	422.7	429.5	439.4	443.0	444.6
127.5°	449.8	457.1	464.9	470.1	470.6
130°	475.3	483.6	489.3	495.0	494.5
132.5°	501.3	508.0	513.7	518.4	517.9
135°	523.1	531.4	536.1	541.3	540.3
137.5°	546.0	552.2	557.4	562.6	561.1
140°	568.3	572.5	578.2	582.9	580.3
142.5°	587.1	590.7	597.5	601.6	599.0
145°	606.8	606.3	615.1	618.8	616.2
147.5°	624.0	622.4	631.3	633.9	631.8
150°	640.6	637.0	645.3	648.4	645.8
152.5°	654.7	650.5	658.3	661.4	657.8
155°	668.2	663.5	669.7	672.9	668.7
157.5°	679.1	674.9	679.6	683.3	679.1
160°	688.5	685.3	688.5	691.6	687.9
162.5°	696.8	693.7	696.3	699.9	695.2
165°	704.1	700.9	702.5	706.1	702.5
167.5°	709.8	706.7	708.2	711.9	707.2
170°	714.5	711.3	712.4	716.0	711.3
172.5°	717.6	714.5	715.5	719.1	714.5
175°	720.2	716.5	717.6	721.2	716.0
177.5°	721.2	717.6	718.1	721.7	717.1
180°	718.6	718.6	718.6	718.6	718.6

(END OF REPORT)