

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: P1008841

Luminaire Tested: S122DIP-B290D330UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008841
REPORT IS A COMBINATION OF REPORTS P983926 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D330UB40-4F0-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

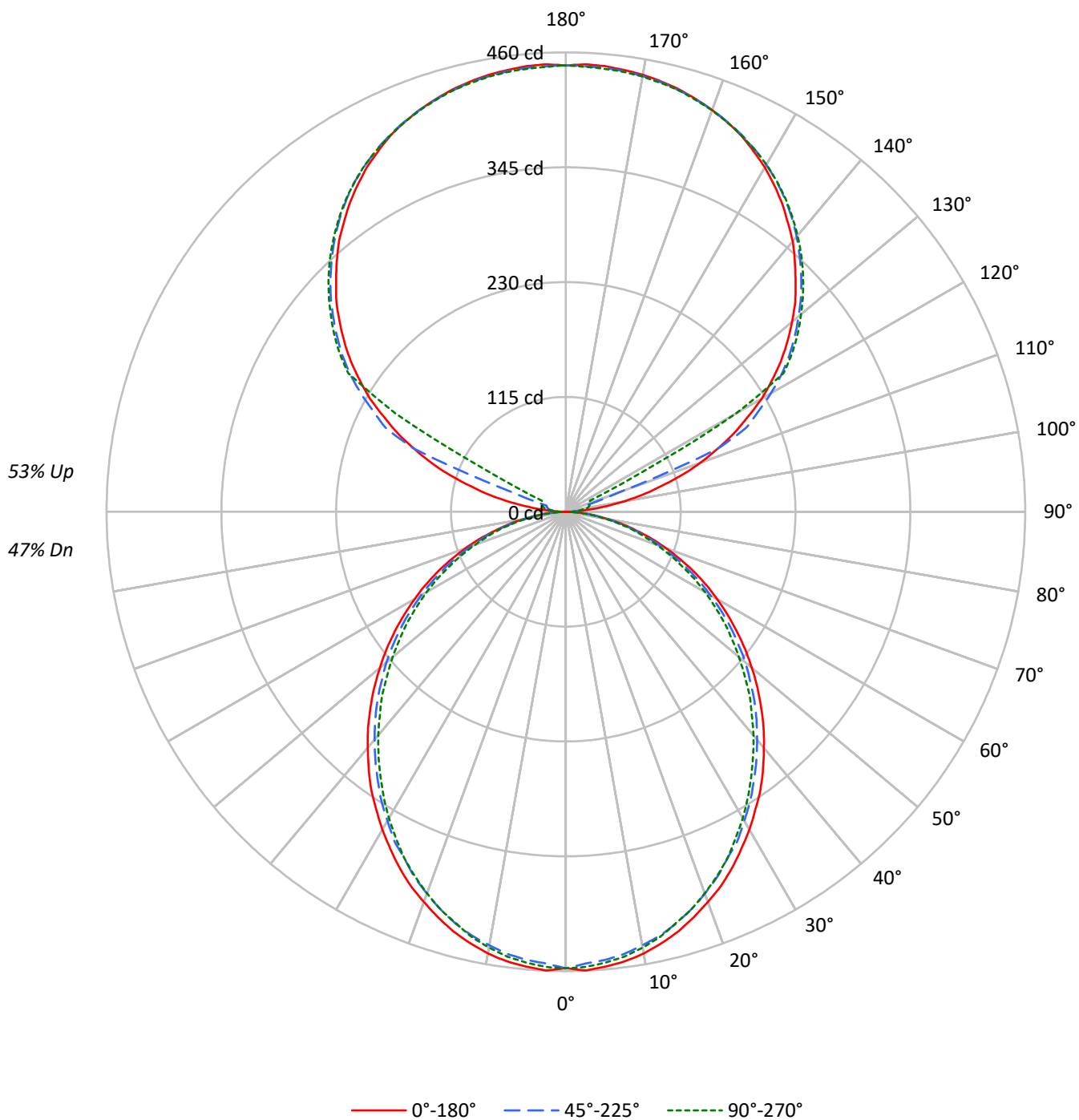
Lumens per Lamp: N/A
Luminaire Lumens: 2474.0 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
Input Voltage (V):
Input Current (A_{in}): 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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53
1	97	93	89	85	89	85	82	79	72	69	67	59	57	56	47	46	45
2	88	81	75	70	81	75	69	65	63	59	56	52	49	47	42	40	38
3	81	71	64	58	74	66	59	54	55	51	47	46	42	39	37	34	32
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28
5	68	56	48	42	62	52	45	39	44	38	34	37	32	29	30	27	24
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	21	19
8	53	41	34	28	49	38	31	27	33	27	23	27	23	20	23	19	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15
10	46	34	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14

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	1.7
10°-20°	121.1	4.9
20°-30°	177.9	7.2
30°-40°	206.6	8.4
40°-50°	206.4	8.3
50°-60°	179.9	7.3
60°-70°	133.0	5.4
70°-80°	75.3	3.0
80°-90°	20.6	0.8
90°-100°	14.7	0.6
100°-110°	54.9	2.2
110°-120°	145.7	5.9
120°-130°	241.7	9.8
130°-140°	256.7	10.4
140°-150°	238.6	9.6
150°-160°	191.8	7.8
160°-170°	123.6	5.0
170°-180°	42.5	1.7
0°-30°	342.0	13.8
0°-40°	548.6	22.2
0°-60°	934.9	37.8
0°-90°	1163.8	47.0
90°-120°	215.4	8.7
90°-150°	952.3	38.5
90°-180°	1310.0	53.0
0°-180°	2474.0	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	4	6	8	9	2
95°	21	10	13	14	14	25
105°	98	108	20	23	25	105
115°	186	191	200	50	26	183
125°	263	267	273	276	276	234
135°	325	330	333	337	336	251
145°	377	377	383	385	383	236
155°	416	413	416	418	416	191
165°	438	436	437	439	437	124
175°	448	446	446	448	445	43
180°	447	447	447	447	447	

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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°	0.3	3.9	6.5	8.1	8.7
92.5°	8.1	6.8	7.8	8.4	8.7
95°	21.0	10.3	12.6	14.2	13.9
97.5°	37.8	11.3	16.5	17.5	17.8
100°	57.2	12.9	18.4	21.0	21.7
102.5°	78.6	77.9	19.1	22.6	23.6
105°	98.3	108.0	19.7	23.3	24.6
107.5°	121.3	129.4	20.4	23.9	25.2
110°	143.3	150.1	56.6	24.3	25.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.0	169.8	164.3	24.9	25.9
115°	185.9	191.4	199.5	49.8	26.5
117.5°	205.0	211.5	217.0	170.7	86.0
120°	226.4	231.2	237.0	240.9	197.3
122.5°	244.5	249.7	256.1	258.1	258.4
125°	262.9	267.1	273.3	275.5	276.5
127.5°	279.7	284.3	289.1	292.3	292.7
130°	295.6	300.7	304.3	307.9	307.5
132.5°	311.7	315.9	319.5	322.4	322.1
135°	325.3	330.5	333.4	336.6	336.0
137.5°	339.6	343.4	346.7	349.9	348.9
140°	353.5	356.0	359.6	362.5	360.9
142.5°	365.1	367.4	371.6	374.2	372.5
145°	377.4	377.1	382.6	384.8	383.2
147.5°	388.1	387.1	392.6	394.2	392.9
150°	398.4	396.1	401.3	403.3	401.6
152.5°	407.1	404.6	409.4	411.3	409.1
155°	415.6	412.6	416.5	418.5	415.9
157.5°	422.3	419.8	422.7	424.9	422.3
160°	428.2	426.2	428.2	430.1	427.8
162.5°	433.3	431.4	433.0	435.3	432.4
165°	437.9	435.9	436.9	439.2	436.9
167.5°	441.4	439.5	440.5	442.7	439.8
170°	444.3	442.4	443.0	445.3	442.4
172.5°	446.3	444.3	445.0	447.2	444.3
175°	447.9	445.6	446.3	448.5	445.3
177.5°	448.5	446.3	446.6	448.9	446.0
180°	446.9	446.9	446.9	446.9	446.9

(END OF REPORT)