

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: P1008842

Luminaire Tested: S122DIP-B290D330UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008842
REPORT IS A COMBINATION OF REPORTS P983927 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-F1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

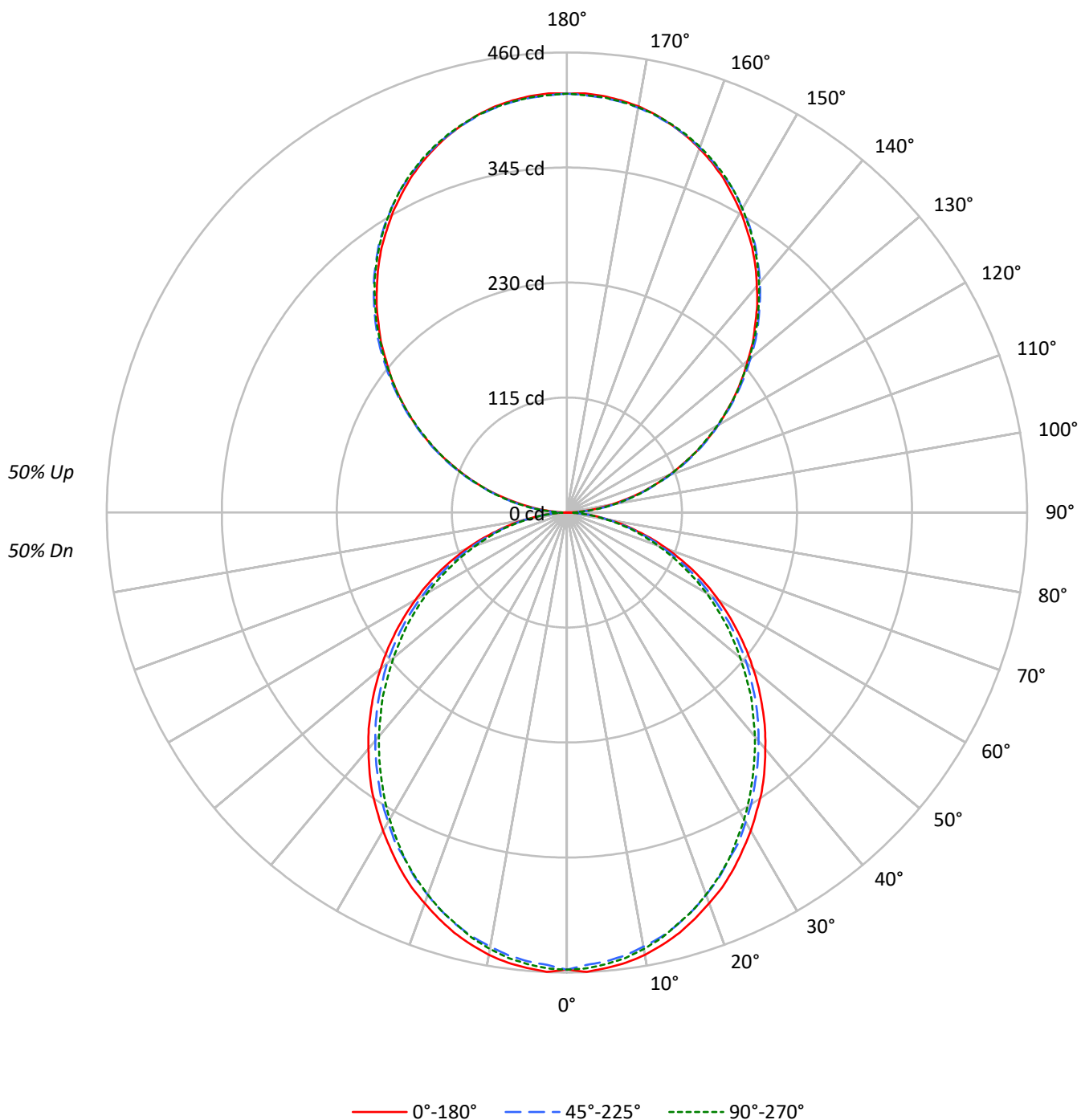
Lumens per Lamp: N/A
Luminaire Lumens: 2335.0 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
Input Voltage (V):
Input Current (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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	107	107	107	107	99	99	99	99		83	83	83		69	69	69		56	56	56
1	98	93	90	86	90	86	83	80		73	71	68		61	59	57		49	48	47
2	89	82	75	70	82	75	70	66		64	60	57		53	51	48		44	42	40
3	81	72	64	59	75	66	60	55		56	52	48		47	44	41		39	36	34
4	74	63	56	50	68	59	52	46		50	45	41		42	38	35		35	32	29
5	68	57	48	42	63	53	45	40		45	39	35		38	34	30		31	28	25
6	63	51	43	37	58	47	40	35		40	35	31		34	30	26		28	25	22
7	58	46	38	32	53	43	36	30		37	31	27		31	27	23		26	22	20
8	54	42	34	29	50	39	32	27		33	28	24		28	24	21		24	20	18
9	50	38	30	25	46	35	29	24		31	25	21		26	22	19		22	19	16
10	47	35	28	23	43	33	26	22		28	23	19		24	20	17		20	17	15

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	1.8
10°-20°	121.1	5.2
20°-30°	177.9	7.6
30°-40°	206.6	8.8
40°-50°	206.4	8.8
50°-60°	179.9	7.7
60°-70°	133.0	5.7
70°-80°	75.3	3.2
80°-90°	21.0	0.9
90°-100°	25.9	1.1
100°-110°	82.3	3.5
110°-120°	140.9	6.0
120°-130°	185.3	7.9
130°-140°	208.0	8.9
140°-150°	204.0	8.7
150°-160°	171.1	7.3
160°-170°	113.5	4.9
170°-180°	39.7	1.7
0°-30°	342.0	14.6
0°-40°	548.6	23.5
0°-60°	934.9	40.0
0°-90°	1164.2	49.9
90°-120°	249.2	10.7
90°-150°	846.5	36.3
90°-180°	1171.0	50.1
0°-180°	2335.0	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	5	12	12	12	2
95°	18	22	23	23	22	21
105°	76	77	78	78	78	80
115°	141	144	143	142	141	140
125°	206	209	208	207	206	184
135°	266	270	271	270	269	206
145°	323	326	328	328	326	202
155°	369	370	371	373	372	170
165°	402	402	402	404	402	113
175°	418	417	416	419	417	40
180°	419	419	419	419	419	

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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°	0.4	4.6	12.4	11.7	12.0
92.5°	7.8	10.6	11.0	11.3	11.3
95°	18.4	21.9	22.6	22.6	21.9
97.5°	30.7	33.9	35.3	35.3	35.3
100°	44.9	47.7	48.8	48.8	48.4
102.5°	59.7	61.8	63.3	63.6	63.3
105°	76.0	77.0	77.7	78.5	78.5
107.5°	92.2	93.6	93.6	94.0	92.2
110°	107.8	109.9	109.9	109.9	108.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	124.7	126.9	126.5	125.5	124.7
115°	141.4	143.5	142.8	142.4	141.4
117.5°	158.0	160.8	159.0	158.0	156.9
120°	174.6	177.4	174.6	174.6	173.5
122.5°	189.8	193.3	191.5	190.5	189.8
125°	205.7	208.9	207.8	206.7	206.4
127.5°	221.2	225.1	223.7	222.3	221.2
130°	235.7	240.3	239.6	238.9	237.5
132.5°	252.0	255.5	255.9	254.1	253.0
135°	266.1	270.0	270.7	270.3	269.3
137.5°	281.7	284.8	285.5	285.2	283.8
140°	295.4	298.6	300.4	300.4	299.0
142.5°	309.6	312.8	313.8	314.2	312.8
145°	323.0	325.5	327.6	328.0	326.5
147.5°	335.0	338.2	339.6	340.3	338.9
150°	347.4	349.5	350.9	352.0	350.9
152.5°	358.3	360.5	362.2	363.6	362.2
155°	369.3	370.4	371.4	373.2	372.1
157.5°	378.8	379.5	380.3	382.7	381.0
160°	387.3	388.0	388.4	390.5	389.1
162.5°	395.1	395.1	395.4	397.9	396.2
165°	401.8	401.5	401.5	403.9	402.2
167.5°	407.8	406.8	406.8	409.2	407.5
170°	412.4	411.4	411.0	413.5	411.4
172.5°	415.6	414.5	414.2	416.7	414.5
175°	418.1	417.0	416.3	418.8	416.7
177.5°	419.5	418.4	417.7	419.8	417.7
180°	418.8	418.8	418.8	418.8	418.8

(END OF REPORT)