

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: P1008975

Luminaire Tested: S122DIP-B290D925UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008975
REPORT IS A COMBINATION OF REPORTS P984105 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D925UB40-4F0-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

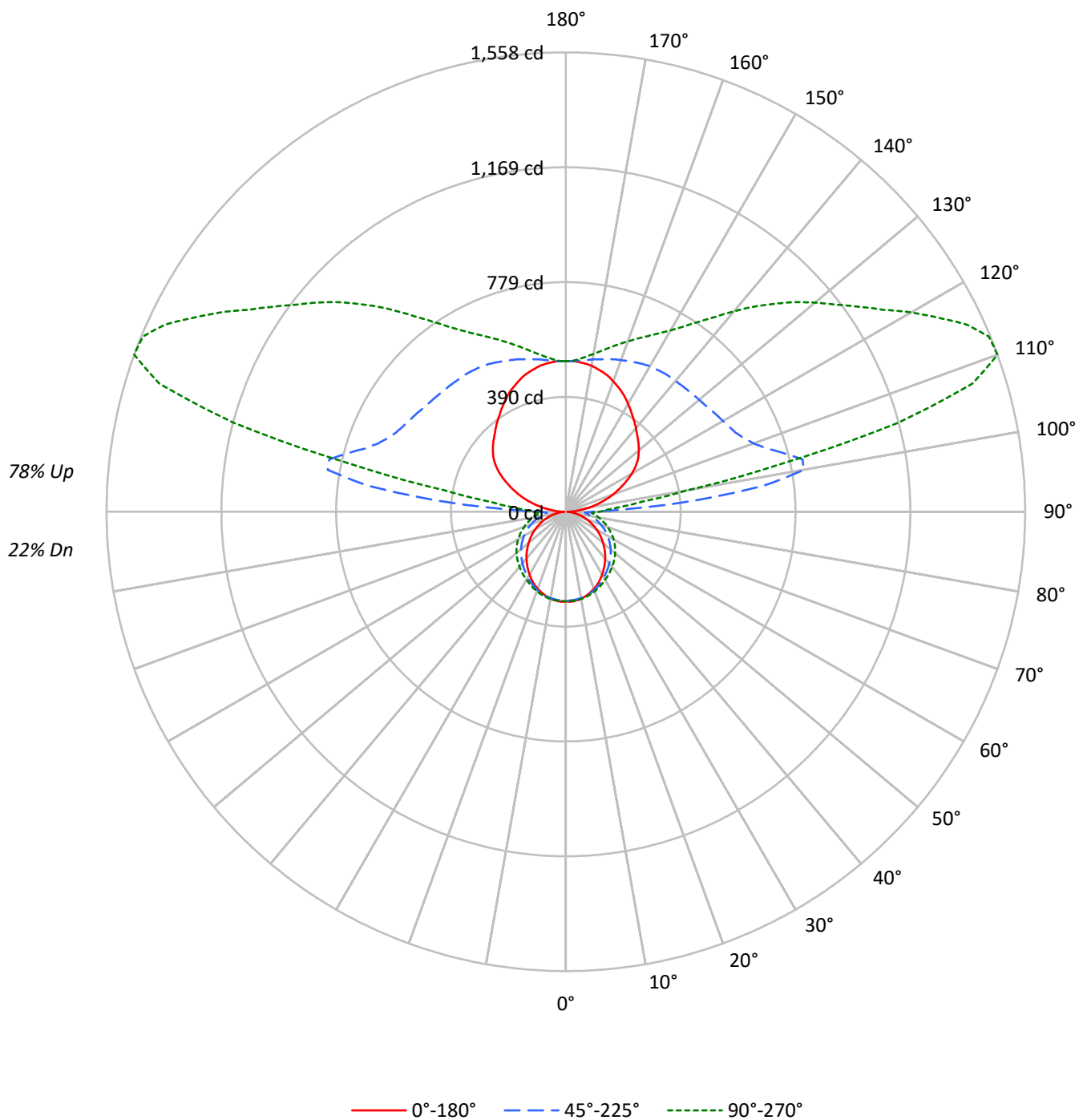
Lumens per Lamp: N/A
Luminaire Lumens: 4723.1 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	100	100	100	100	89	89	89	89	68	68	68		48	48	48		30
1	91	86	82	79	80	77	73	70	58	56	54		41	40	39		26
2	82	75	69	64	73	66	61	57	51	47	44		36	34	32		22
3	75	66	58	53	66	58	52	47	44	40	37		31	29	26		19
4	68	58	50	44	60	51	45	40	39	35	31		28	25	22		17
5	62	51	43	37	55	46	39	34	35	30	26		25	22	19		15
6	57	46	38	32	51	41	34	29	31	26	23		22	19	17		14
7	53	41	33	28	47	37	30	25	28	23	20		20	17	14		13
8	49	37	29	24	43	33	27	22	25	21	17		18	15	13		12
9	45	34	26	21	40	30	24	19	23	19	15		17	14	11		11
10	42	31	24	19	37	27	21	17	21	17	14		15	12	10		10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4804	4804	4804
5°	4826	4599	4573
10°	4793	4439	4375
15°	4726	4275	4172
20°	4641	4101	3979
25°	4556	3936	3803
30°	4438	3767	3631
35°	4319	3605	3504
40°	4194	3465	3377
45°	4073	3338	3267
50°	3943	3221	3159
55°	3808	3097	3048
60°	3644	2967	2931
65°	3470	2816	2797
70°	3278	2657	2654
75°	3026	2497	2517
80°	2635	2330	2376
85°	2232	2174	2255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	0.6
10°-20°	82.5	1.7
20°-30°	125.0	2.6
30°-40°	152.2	3.2
40°-50°	163.8	3.5
50°-60°	159.1	3.4
60°-70°	138.9	2.9
70°-80°	106.9	2.3
80°-90°	74.9	1.6
90°-100°	256.5	5.4
100°-110°	736.2	15.6
110°-120°	759.8	16.1
120°-130°	618.4	13.1
130°-140°	491.9	10.4
140°-150°	368.3	7.8
150°-160°	258.3	5.5
160°-170°	152.1	3.2
170°-180°	49.5	1.0
0°-30°	236.3	5.0
0°-40°	388.5	8.2
0°-60°	711.5	15.1
0°-90°	1032.2	21.9
90°-120°	1752.5	37.1
90°-150°	3231.1	68.4
90°-180°	3691.0	78.1
0°-180°	4723.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	304	303	300	303	303	29
15°	290	291	291	295	295	82
25°	264	267	271	276	278	121
35°	227	235	243	253	256	142
45°	186	198	214	227	232	144
55°	143	159	182	198	203	128
65°	98	119	145	163	169	97
75°	54	79	107	126	132	57
85°	16	43	71	90	96	17
90°	5	43	92	108	113	5
95°	38	109	436	213	185	38
105°	122	196	766	1354	1165	130
115°	213	273	636	1297	1501	211
125°	296	350	600	1045	1213	263
135°	346	413	584	870	997	268
145°	395	454	576	717	787	248
155°	449	485	559	632	657	207
165°	489	504	535	568	577	138
175°	510	510	515	521	520	48
180°	511	511	511	511	511	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	303.5	303.5	303.5	303.5	303.5
2.5°	305.7	304.4	301.3	303.5	302.6
5°	304.4	303.0	300.4	303.0	302.6
7.5°	302.2	301.3	299.1	302.2	301.7
10°	299.5	298.6	297.3	300.8	300.4
12.5°	295.1	295.6	294.7	298.2	297.8
15°	290.3	291.2	291.2	295.1	294.7
17.5°	284.1	285.9	287.2	291.2	291.2
20°	278.0	280.2	281.9	286.8	286.8
22.5°	271.4	274.0	276.7	281.5	282.4
25°	263.9	267.0	270.9	276.2	277.5
27.5°	255.1	259.9	264.3	270.9	271.8
30°	246.3	252.0	257.7	264.8	266.1
32.5°	236.6	243.2	250.3	258.6	261.3
35°	227.4	234.9	243.2	252.9	256.0
37.5°	217.3	225.6	236.2	246.7	249.8
40°	207.2	216.8	228.7	240.2	244.1
42.5°	197.5	207.2	221.2	234.0	238.0
45°	186.5	198.4	213.8	227.4	231.8
47.5°	175.9	188.7	206.3	220.4	225.2
50°	164.9	178.6	198.4	213.3	218.2
52.5°	154.4	168.9	190.0	205.4	210.7
55°	142.9	158.8	181.7	197.5	203.2
57.5°	132.0	149.5	172.4	189.6	195.3
60°	120.1	139.0	164.1	180.8	186.9
62.5°	109.5	129.3	154.4	172.4	178.1
65°	97.6	119.2	145.1	163.2	168.9
67.5°	87.1	109.5	135.9	153.9	160.1
70°	75.7	98.5	125.8	144.7	150.0
72.5°	65.1	88.8	116.6	135.0	141.6
75°	54.1	78.7	106.9	125.8	131.5
77.5°	43.5	69.1	97.6	116.6	122.7
80°	33.0	59.8	88.4	106.9	113.0
82.5°	24.2	50.6	79.6	98.1	103.8
85°	15.8	43.1	71.3	89.7	95.9
87.5°	9.7	36.1	64.2	82.2	88.0
90°	5.4	43.2	91.5	107.6	113.3
92.5°	18.7	74.0	205.4	141.0	136.4
95°	37.9	108.7	435.7	212.7	184.6
97.5°	54.2	133.5	675.3	355.6	256.7
100°	78.7	156.0	820.1	641.4	416.8
102.5°	100.8	176.4	821.9	1039.2	747.3
105°	122.1	195.8	765.8	1354.4	1165.3
107.5°	145.6	215.2	713.6	1466.4	1445.6
110°	168.8	235.0	677.6	1444.2	1558.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	190.4	254.4	652.9	1377.8	1553.0
115°	213.0	273.4	635.5	1296.6	1501.4
117.5°	236.1	292.7	624.6	1219.4	1425.2
120°	257.7	311.6	615.1	1149.5	1352.3
122.5°	278.3	331.4	608.4	1094.9	1275.7
125°	295.6	349.6	600.5	1045.1	1212.7
127.5°	310.4	367.3	594.9	1001.8	1153.2
130°	323.1	383.5	590.3	958.4	1103.5
132.5°	334.9	399.2	586.6	913.6	1052.3
135°	346.2	413.0	583.5	869.8	997.1
137.5°	357.0	424.8	581.3	825.4	943.5
140°	369.8	435.2	578.6	786.0	887.9
142.5°	382.6	444.1	577.7	748.5	832.8
145°	394.9	453.9	575.7	717.4	786.8
147.5°	408.7	461.8	572.8	690.1	745.5
150°	422.5	469.6	569.8	668.0	710.3
152.5°	436.2	477.4	564.9	649.9	681.8
155°	449.0	484.8	559.0	632.2	657.3
157.5°	459.8	490.7	553.1	615.5	635.6
160°	470.6	496.6	547.2	598.8	615.0
162.5°	481.4	501.0	542.3	583.0	595.4
165°	489.3	504.0	535.4	567.8	576.7
167.5°	496.1	507.0	529.5	554.1	559.0
170°	503.0	508.4	524.6	541.3	543.3
172.5°	506.9	509.9	518.7	530.0	530.5
175°	509.9	510.4	514.8	521.2	519.7
177.5°	511.9	510.9	510.9	514.8	511.9
180°	510.9	510.9	510.9	510.9	510.9

(END OF REPORT)