

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: P1008903

Luminaire Tested: S122DIP-B290D725UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008903
REPORT IS A COMBINATION OF REPORTS P984003 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D725UB27-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

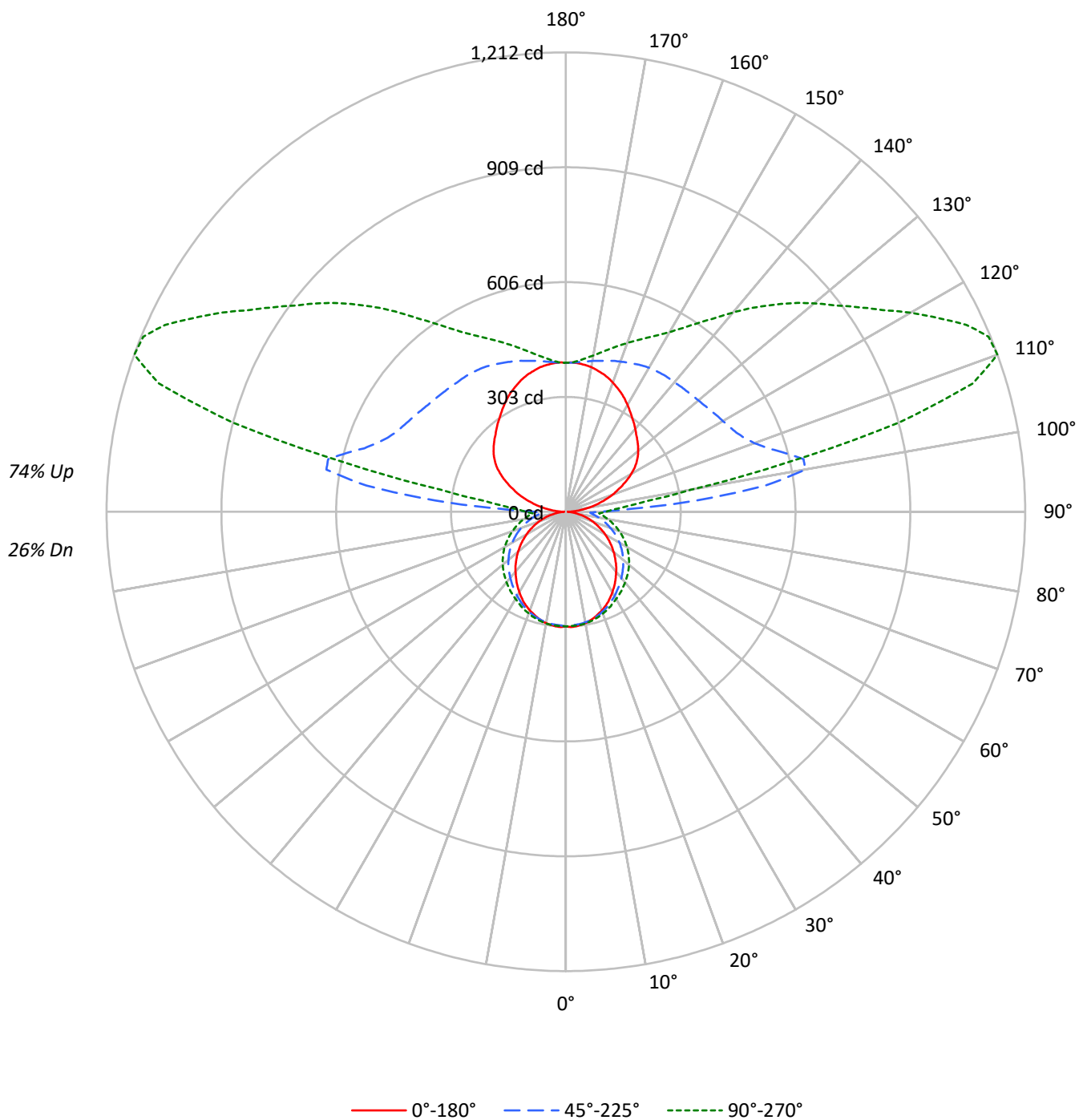
Lumens per Lamp: N/A
Luminaire Lumens: 3900.1 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	34	34	34
1	92	87	83	79	82	78	74	71	60	58	56	44	43	41	29	28	27
2	83	76	69	64	74	67	62	58	52	49	45	38	36	34	25	24	22
3	76	66	59	53	67	59	53	48	46	41	38	33	31	28	22	20	19
4	69	58	50	44	61	52	45	40	40	36	32	30	26	24	19	18	16
5	63	52	44	38	56	46	39	34	36	31	27	26	23	20	17	15	14
6	58	46	38	32	51	41	34	29	32	27	23	24	20	18	16	14	12
7	53	41	34	28	47	37	30	26	29	24	20	21	18	15	14	12	10
8	49	37	30	25	44	34	27	22	26	21	18	19	16	14	13	11	9
9	46	34	27	22	41	30	24	20	24	19	16	18	14	12	12	10	8
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4787	4787	4787
5°	4809	4584	4558
10°	4777	4424	4360
15°	4709	4261	4158
20°	4624	4088	3965
25°	4541	3923	3791
30°	4423	3755	3618
35°	4303	3593	3491
40°	4177	3453	3366
45°	4058	3326	3256
50°	3931	3210	3147
55°	3797	3085	3037
60°	3632	2956	2921
65°	3459	2806	2787
70°	3265	2648	2645
75°	3015	2488	2509
80°	2627	2322	2367
85°	2232	2165	2248

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.7
10°-20°	82.2	2.1
20°-30°	124.6	3.2
30°-40°	151.7	3.9
40°-50°	163.2	4.2
50°-60°	158.5	4.1
60°-70°	138.4	3.5
70°-80°	106.6	2.7
80°-90°	73.9	1.9
90°-100°	208.8	5.4
100°-110°	575.3	14.7
110°-120°	590.6	15.1
120°-130°	479.4	12.3
130°-140°	380.1	9.7
140°-150°	283.9	7.3
150°-160°	198.9	5.1
160°-170°	117.1	3.0
170°-180°	38.1	1.0
0°-30°	235.5	6.0
0°-40°	387.2	9.9
0°-60°	709.0	18.2
0°-90°	1027.9	26.4
90°-120°	1374.7	35.2
90°-150°	2518.1	64.6
90°-180°	2872.0	73.6
0°-180°	3900.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	303	302	299	302	302	29
15°	289	290	290	294	294	81
25°	263	266	270	275	277	121
35°	227	234	242	252	255	142
45°	186	198	213	227	231	143
55°	142	158	181	197	202	127
65°	97	119	145	163	168	97
75°	54	78	106	125	131	57
85°	16	43	71	89	96	17
90°	5	40	84	100	106	5
95°	30	89	347	179	159	30
105°	94	154	598	1055	911	101
115°	164	212	496	1008	1167	163
125°	228	270	466	811	941	203
135°	267	318	450	673	772	206
145°	304	350	444	553	607	191
155°	346	374	431	487	506	159
165°	377	388	412	437	444	106
175°	393	393	396	402	400	37
180°	394	394	394	394	394	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	302.4	302.4	302.4	302.4	302.4
2.5°	304.6	303.3	300.2	302.4	301.6
5°	303.3	302.0	299.4	302.0	301.6
7.5°	301.1	300.2	298.1	301.1	300.7
10°	298.5	297.6	296.3	299.8	299.4
12.5°	294.1	294.5	293.7	297.2	296.7
15°	289.3	290.2	290.2	294.1	293.7
17.5°	283.2	284.9	286.2	290.2	290.2
20°	277.0	279.2	281.0	285.8	285.8
22.5°	270.4	273.1	275.7	280.5	281.4
25°	263.0	266.1	270.0	275.3	276.6
27.5°	254.2	259.0	263.4	270.0	270.9
30°	245.5	251.2	256.9	263.9	265.2
32.5°	235.8	242.4	249.4	257.7	260.4
35°	226.6	234.1	242.4	252.0	255.1
37.5°	216.5	224.9	235.4	245.9	249.0
40°	206.4	216.1	227.9	239.3	243.3
42.5°	196.8	206.4	220.5	233.2	237.1
45°	185.8	197.7	213.0	226.6	231.0
47.5°	175.3	188.0	205.6	219.6	224.4
50°	164.4	178.0	197.7	212.6	217.4
52.5°	153.8	168.3	189.4	204.7	210.0
55°	142.5	158.2	181.0	196.8	202.5
57.5°	131.5	149.0	171.8	188.9	194.6
60°	119.7	138.5	163.5	180.1	186.3
62.5°	109.1	128.9	153.8	171.8	177.5
65°	97.3	118.8	144.6	162.6	168.3
67.5°	86.8	109.1	135.4	153.4	159.5
70°	75.4	98.2	125.4	144.2	149.5
72.5°	64.9	88.5	116.2	134.6	141.1
75°	53.9	78.5	106.5	125.4	131.1
77.5°	43.4	68.8	97.3	116.2	122.3
80°	32.9	59.6	88.1	106.5	112.6
82.5°	24.1	50.4	79.3	97.7	103.4
85°	15.8	43.0	71.0	89.4	95.6
87.5°	9.6	35.9	64.0	82.0	87.7
90°	5.2	40.0	83.6	100.0	105.7
92.5°	15.3	63.2	170.4	124.8	122.5
95°	30.0	89.2	347.1	179.1	158.6
97.5°	42.5	107.8	530.9	288.4	213.3
100°	61.4	124.5	641.6	507.6	335.8
102.5°	78.3	139.7	642.4	813.3	589.6
105°	94.5	154.2	598.5	1055.3	910.8
107.5°	112.7	168.6	557.5	1140.8	1126.0
110°	130.5	183.4	529.2	1122.9	1211.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.1	198.0	509.4	1071.1	1207.2
115°	164.5	212.0	495.5	1007.7	1166.6
117.5°	182.2	226.5	486.3	947.6	1107.1
120°	198.8	240.7	478.4	893.0	1050.3
122.5°	214.7	255.7	472.8	850.2	990.4
125°	227.9	269.5	465.9	811.1	941.1
127.5°	239.3	283.0	461.1	777.0	894.5
130°	249.1	295.5	456.8	742.9	855.4
132.5°	258.2	307.6	453.5	707.6	815.2
135°	266.8	318.2	450.5	673.2	772.0
137.5°	275.1	327.4	448.3	638.3	729.9
140°	284.9	335.2	445.9	607.2	686.3
142.5°	294.8	342.0	445.0	577.8	643.2
145°	304.2	349.6	443.5	553.2	607.2
147.5°	314.8	355.6	441.2	531.6	574.7
150°	325.4	361.7	438.9	514.6	547.1
152.5°	336.0	367.8	435.1	500.6	525.2
155°	345.8	373.5	430.6	487.0	506.3
157.5°	354.2	378.0	426.1	474.1	489.6
160°	362.5	382.5	421.5	461.2	473.7
162.5°	370.8	386.0	417.7	449.1	458.6
165°	376.9	388.2	412.4	437.4	444.2
167.5°	382.2	390.5	407.9	426.8	430.6
170°	387.5	391.6	404.1	417.0	418.5
172.5°	390.5	392.8	399.6	408.3	408.7
175°	392.8	393.2	396.5	401.5	400.3
177.5°	394.3	393.5	393.5	396.5	394.3
180°	393.5	393.5	393.5	393.5	393.5

(END OF REPORT)