

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: P1009895

Luminaire Tested: S122RDIP-B290D725UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009895
REPORT IS A COMBINATION OF REPORTS P988143 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B290D725UB27-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

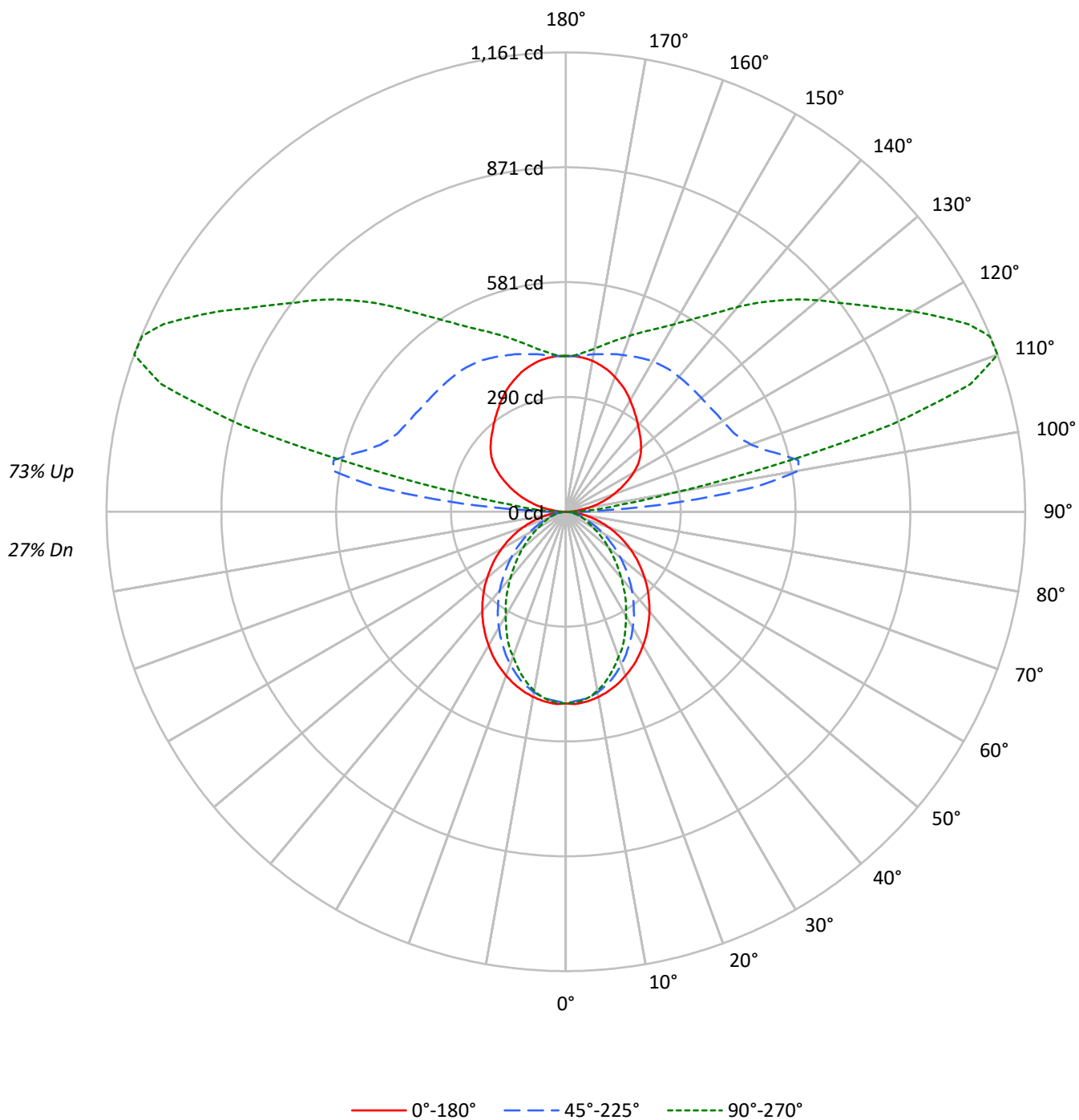
Lumens per Lamp: N/A
Luminaire Lumens: 3742.1 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	35	35	35
1	93	89	85	82	83	79	76	74	62	60	58	46	45	43	31	30	30
2	85	78	72	67	75	70	65	61	54	51	48	41	38	37	28	26	25
3	77	68	62	56	69	61	56	51	48	44	41	36	33	31	25	23	22
4	71	61	53	48	63	55	48	43	43	38	35	32	29	27	22	20	19
5	65	54	46	41	58	49	42	37	38	34	30	29	26	23	20	18	17
6	60	48	41	35	53	44	37	32	35	30	26	26	23	21	18	16	15
7	55	44	36	31	49	39	33	28	31	27	23	24	21	18	17	15	13
8	51	40	32	27	46	36	29	25	29	24	21	22	19	16	15	13	12
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	14	12	11
10	44	33	26	21	40	30	24	20	24	20	16	18	15	13	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7666	7666	7666
5°	7679	7293	7239
10°	7603	6918	6689
15°	7498	6473	6062
20°	7360	5968	5406
25°	7218	5451	4805
30°	7029	4945	4151
35°	6843	4437	3587
40°	6653	3938	3008
45°	6432	3421	2502
50°	6206	2924	2037
55°	5969	2427	1617
60°	5693	1942	1223
65°	5375	1481	994
70°	4993	1073	791
75°	4509	820	605
80°	3816	553	406
85°	2656	253	195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6432 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	1.2
10°-20°	124.6	3.3
20°-30°	174.9	4.7
30°-40°	190.7	5.1
40°-50°	175.3	4.7
50°-60°	137.6	3.7
60°-70°	89.6	2.4
70°-80°	46.1	1.2
80°-90°	14.3	0.4
90°-100°	159.5	4.3
100°-110°	539.3	14.4
110°-120°	566.9	15.1
120°-130°	466.2	12.5
130°-140°	374.6	10.0
140°-150°	283.0	7.6
150°-160°	198.9	5.3
160°-170°	117.1	3.1
170°-180°	38.1	1.0
0°-30°	344.9	9.2
0°-40°	535.6	14.3
0°-60°	848.5	22.7
0°-90°	998.5	26.7
90°-120°	1265.7	33.8
90°-150°	2389.4	63.9
90°-180°	2744.0	73.3
0°-180°	3742.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	484	484	484	484	484	
5°	484	482	476	480	479	46
15°	461	456	441	433	428	130
25°	418	404	375	357	351	192
35°	360	338	299	272	262	225
45°	294	265	219	188	178	227
55°	224	190	142	116	108	200
65°	151	116	76	61	60	150
75°	81	50	35	32	32	85
85°	19	10	8	8	8	22
90°	1	10	26	25	25	3
95°	26	65	297	112	86	27
105°	92	139	561	1002	853	98
115°	163	205	469	968	1122	161
125°	227	269	451	784	910	202
135°	266	318	446	659	754	206
145°	304	350	444	551	602	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°	484.3	484.3	484.3	484.3	484.3
2.5°	486.5	484.3	479.5	483.8	483.0
5°	484.3	482.1	476.4	480.3	479.0
7.5°	480.3	477.7	471.6	473.3	471.1
10°	475.1	472.0	463.3	461.9	459.3
12.5°	468.5	464.6	452.7	450.1	445.3
15°	460.6	455.8	440.9	432.6	428.2
17.5°	451.4	444.4	426.0	416.4	409.3
20°	440.9	432.1	410.2	399.3	389.6
22.5°	429.5	419.4	394.0	379.1	372.5
25°	418.1	404.1	375.2	357.2	350.6
27.5°	404.5	389.6	357.6	337.0	326.9
30°	390.1	373.4	338.3	316.0	304.2
32.5°	376.0	355.9	319.9	293.6	282.7
35°	360.3	337.9	299.3	271.7	262.1
37.5°	344.9	320.8	280.1	249.8	238.9
40°	328.7	302.4	259.9	228.8	217.4
42.5°	312.0	284.0	239.7	207.3	196.3
45°	294.5	265.2	219.1	188.0	177.5
47.5°	277.9	246.7	199.4	168.3	158.7
50°	259.5	228.3	180.1	149.9	140.7
52.5°	241.5	208.6	161.7	132.8	124.5
55°	224.0	189.8	142.4	116.1	107.8
57.5°	206.0	170.9	125.3	100.8	93.8
60°	187.6	152.5	107.4	85.0	78.0
62.5°	169.6	134.5	92.0	71.0	67.5
65°	151.2	115.7	76.3	61.4	60.0
67.5°	133.7	98.2	61.4	53.9	52.6
70°	115.3	81.1	50.8	46.5	44.7
72.5°	97.7	65.3	42.5	39.0	38.1
75°	80.6	50.0	35.1	32.0	31.6
77.5°	63.5	35.5	27.6	25.9	25.0
80°	47.8	25.4	21.0	19.3	19.3
82.5°	33.3	17.1	14.5	13.6	13.6
85°	18.8	9.6	8.3	8.3	8.3
87.5°	7.0	3.5	3.5	3.1	3.1
90°	0.8	10.2	25.7	24.6	25.0
92.5°	11.4	36.0	116.5	53.8	46.2
95°	26.5	65.1	296.7	112.0	86.3
97.5°	39.4	85.9	483.6	224.8	144.5
100°	58.3	105.2	597.8	447.6	270.9
102.5°	75.7	122.6	601.6	756.8	528.2
105°	92.3	139.2	560.8	1002.3	852.9
107.5°	110.5	155.9	522.9	1091.2	1071.6
110°	128.7	172.9	497.2	1076.9	1160.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.3	189.2	480.5	1028.1	1159.4
115°	162.7	205.4	469.2	968.3	1122.3
117.5°	180.9	221.7	463.1	911.2	1066.3
120°	197.5	237.6	457.8	860.0	1012.6
122.5°	213.4	253.9	454.8	820.4	956.6
125°	227.0	268.6	451.0	784.4	910.4
127.5°	238.4	282.6	448.8	753.8	867.3
130°	248.2	295.1	447.2	722.7	831.7
132.5°	257.3	307.2	446.5	690.6	794.6
135°	266.4	317.8	445.7	659.2	754.5
137.5°	274.7	327.0	445.7	627.3	715.9
140°	284.5	335.2	445.0	599.4	675.8
142.5°	294.4	342.0	445.0	572.4	635.7
145°	304.2	349.6	443.5	550.6	602.4
147.5°	314.8	355.6	441.2	531.2	572.9
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)