

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: P1008948

Luminaire Tested: S122DIP-B290D925UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008948
REPORT IS A COMBINATION OF REPORTS P984063 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D925UB27-4F0-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

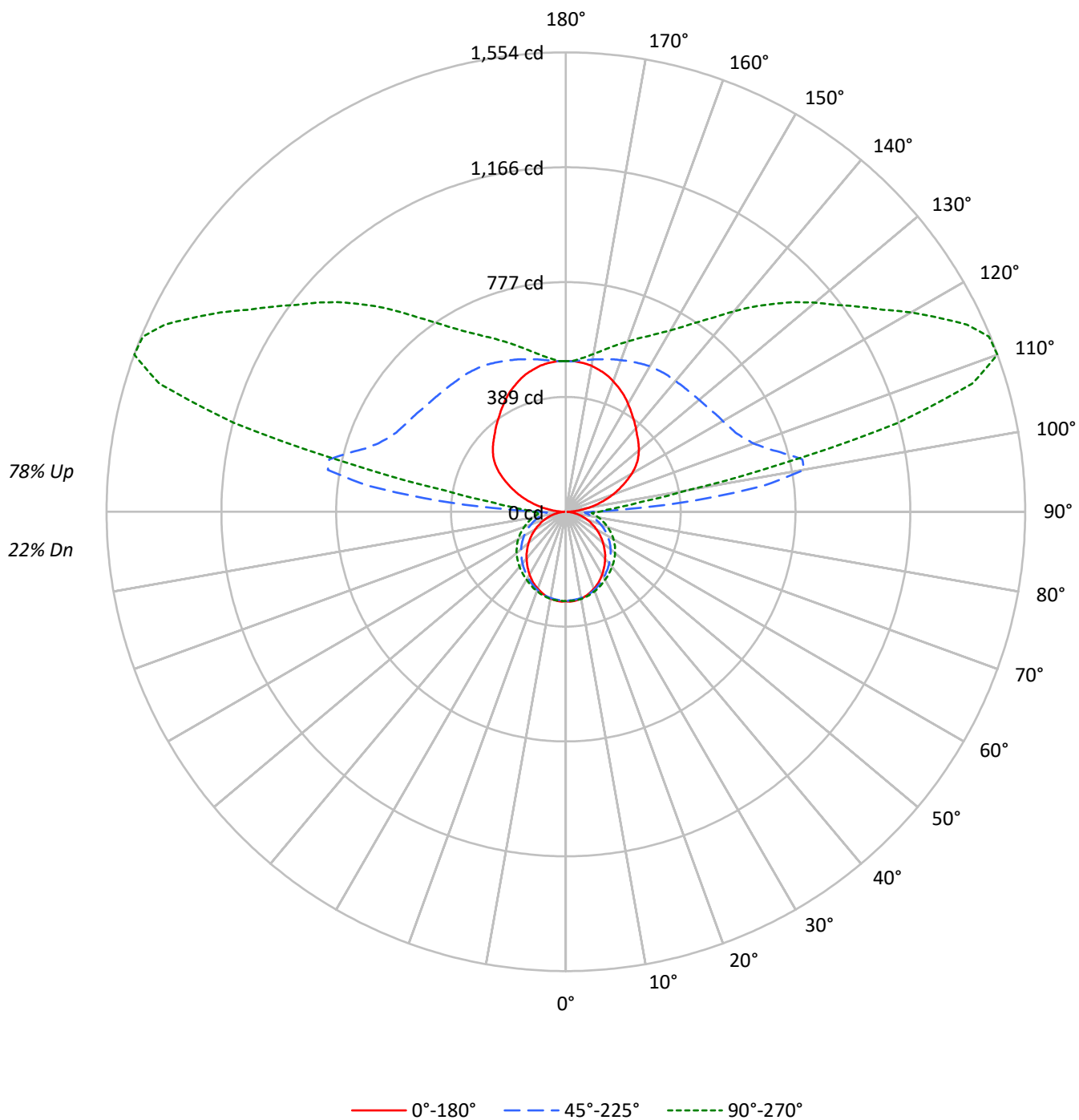
Lumens per Lamp: N/A
Luminaire Lumens: 4709.1 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	30	10
RCR																	
0	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30
1	91	86	82	79	80	77	73	70	58	56	54	41	40	39	26	25	24
2	82	75	69	64	73	66	61	57	51	47	44	36	34	32	22	21	20
3	75	66	58	53	66	58	52	47	44	40	37	31	29	26	19	18	17
4	68	58	50	44	60	51	45	40	39	35	31	28	25	22	17	15	14
5	62	51	43	37	55	46	39	34	35	30	26	25	22	19	15	14	12
6	57	46	38	32	51	41	34	29	31	26	23	22	19	17	14	12	11
7	53	41	33	28	47	37	30	25	28	23	20	20	17	14	13	11	9
8	49	37	29	24	43	33	27	22	25	21	17	18	15	13	12	10	8
9	45	34	26	21	40	30	24	19	23	19	15	17	14	11	11	9	7
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	10	8	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	0.6
10°-20°	82.2	1.7
20°-30°	124.6	2.6
30°-40°	151.7	3.2
40°-50°	163.2	3.5
50°-60°	158.5	3.4
60°-70°	138.4	2.9
70°-80°	106.6	2.3
80°-90°	74.6	1.6
90°-100°	255.8	5.4
100°-110°	734.1	15.6
110°-120°	757.6	16.1
120°-130°	616.7	13.1
130°-140°	490.5	10.4
140°-150°	367.3	7.8
150°-160°	257.5	5.5
160°-170°	151.6	3.2
170°-180°	49.3	1.0
0°-30°	235.5	5.0
0°-40°	387.2	8.2
0°-60°	709.0	15.1
0°-90°	1028.6	21.8
90°-120°	1747.5	37.1
90°-150°	3222.0	68.4
90°-180°	3680.0	78.1
0°-180°	4709.1	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	43	91	107	113	5
95°	38	108	434	212	184	38
105°	122	195	764	1351	1162	129
115°	212	273	634	1293	1497	210
125°	295	349	599	1042	1209	262
135°	345	412	582	867	994	267
145°	394	453	574	715	785	247
155°	448	483	557	630	655	206
165°	488	503	534	566	575	138
175°	508	509	513	520	518	48
180°	509	509	509	509	509	

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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°	5.4	43.0	91.2	107.2	113.0
92.5°	18.6	73.7	204.8	140.6	136.1
95°	37.8	108.4	434.4	212.1	184.0
97.5°	54.0	133.1	673.3	354.6	255.9
100°	78.5	155.5	817.8	639.5	415.6
102.5°	100.6	175.8	819.6	1036.2	745.2
105°	121.7	195.2	763.6	1350.6	1162.0
107.5°	145.2	214.5	711.6	1462.2	1441.6
110°	168.3	234.4	675.7	1440.1	1553.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.9	253.7	651.0	1373.9	1548.7
115°	212.4	272.6	633.7	1293.0	1497.2
117.5°	235.4	291.8	622.8	1215.9	1421.2
120°	257.0	310.7	613.3	1146.3	1348.5
122.5°	277.6	330.5	606.8	1091.8	1272.1
125°	294.8	348.7	598.8	1042.2	1209.3
127.5°	309.5	366.3	593.3	999.0	1149.9
130°	322.2	382.5	588.6	955.8	1100.4
132.5°	334.0	398.2	585.0	911.0	1049.3
135°	345.2	411.9	581.8	867.3	994.2
137.5°	356.0	423.6	579.6	823.2	940.8
140°	368.8	434.0	577.0	783.8	885.4
142.5°	381.5	442.8	576.1	746.4	830.4
145°	393.8	452.6	574.1	715.3	784.6
147.5°	407.5	460.4	571.2	688.2	743.4
150°	421.3	468.3	568.2	666.2	708.3
152.5°	435.0	476.2	563.3	648.0	679.9
155°	447.7	483.4	557.4	630.4	655.4
157.5°	458.5	489.4	551.6	613.8	633.9
160°	469.3	495.2	545.7	597.1	613.3
162.5°	480.0	499.6	540.8	581.4	593.7
165°	487.9	502.6	533.9	566.2	575.1
167.5°	494.7	505.6	528.1	552.6	557.4
170°	501.6	507.0	523.2	539.8	541.8
172.5°	505.5	508.4	517.3	528.6	529.0
175°	508.5	509.0	513.4	519.7	518.3
177.5°	510.4	509.4	509.4	513.4	510.4
180°	509.4	509.4	509.4	509.4	509.4

(END OF REPORT)