

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: P1008974

Luminaire Tested: S122DIP-B290D925UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008974
REPORT IS A COMBINATION OF REPORTS P984104 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-D1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

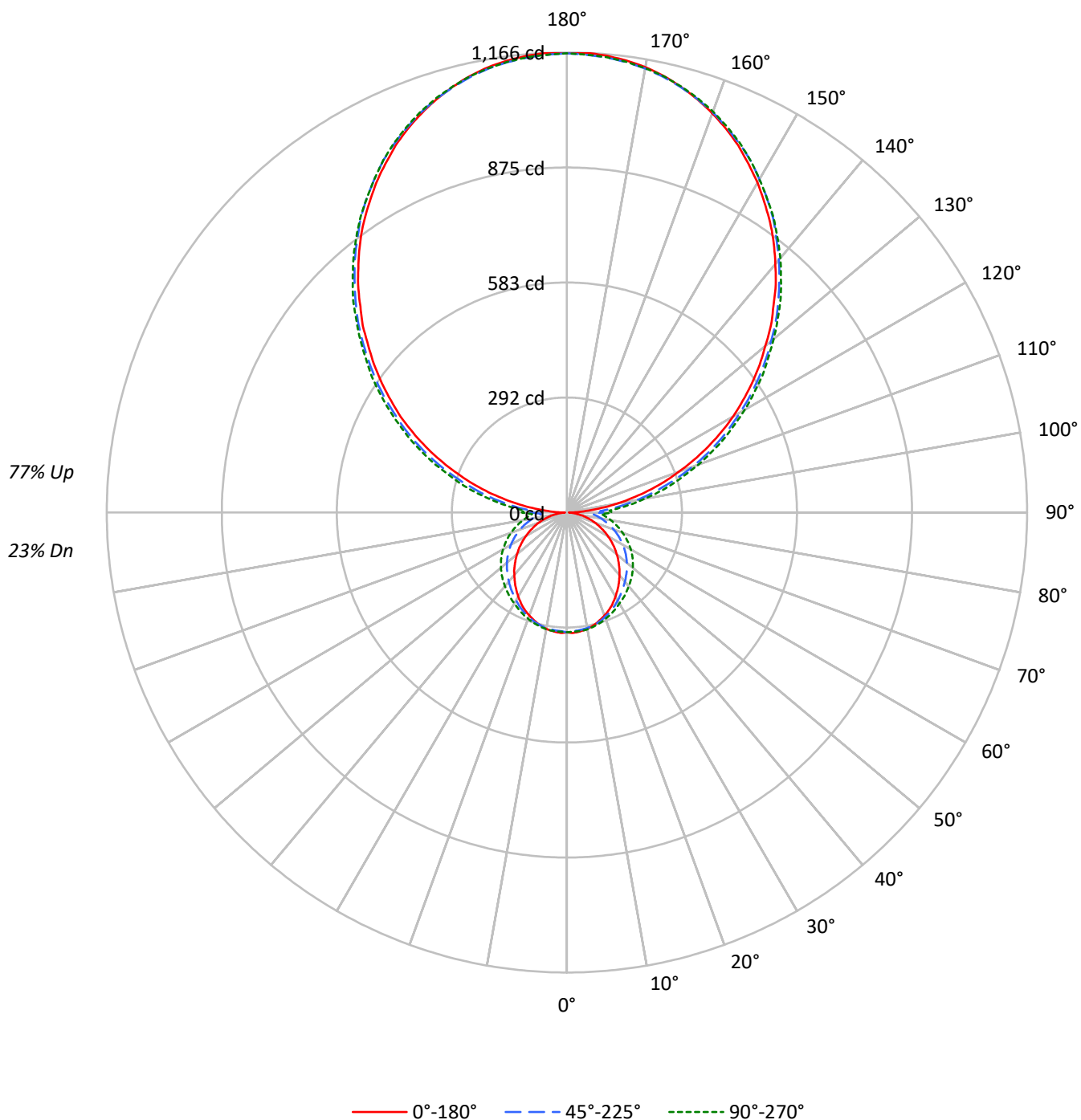
Lumens per Lamp: N/A
Luminaire Lumens: 4416.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32
1	91	87	83	79	81	77	74	71	59	57	55	42	41	39	27	26	25
2	83	75	69	64	73	67	62	57	51	48	45	37	34	32	23	22	21
3	75	66	59	53	66	58	52	47	45	41	37	32	29	27	20	19	17
4	69	58	50	44	60	52	45	40	40	35	31	28	25	23	18	16	15
5	63	51	43	38	55	46	39	34	35	30	27	25	22	20	16	14	13
6	58	46	38	32	51	41	34	29	31	27	23	23	19	17	14	13	11
7	53	41	33	28	47	37	30	25	28	24	20	21	17	15	13	11	10
8	49	37	30	24	43	33	27	22	26	21	18	19	15	13	12	10	9
9	46	34	26	22	40	30	24	20	23	19	16	17	14	12	11	9	8
10	42	31	24	19	38	28	21	17	21	17	14	16	13	10	10	8	7

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	0.7
10°-20°	82.5	1.9
20°-30°	125.0	2.8
30°-40°	152.2	3.4
40°-50°	163.8	3.7
50°-60°	159.1	3.6
60°-70°	138.9	3.1
70°-80°	106.9	2.4
80°-90°	74.9	1.7
90°-100°	121.4	2.7
100°-110°	265.0	6.0
110°-120°	415.6	9.4
120°-130°	528.5	12.0
130°-140°	583.8	13.2
140°-150°	568.0	12.9
150°-160°	475.7	10.8
160°-170°	315.5	7.1
170°-180°	110.3	2.5
0°-30°	236.3	5.4
0°-40°	388.5	8.8
0°-60°	711.5	16.1
0°-90°	1032.2	23.4
90°-120°	802.0	18.2
90°-150°	2482.3	56.2
90°-180°	3384.0	76.6
0°-180°	4416.0	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	114	6
95°	55	85	114	130	134	60
105°	213	229	254	271	276	226
115°	395	405	423	436	437	390
125°	573	582	593	602	604	512
135°	740	751	757	766	766	572
145°	898	905	911	914	912	561
155°	1027	1030	1032	1037	1034	473
165°	1117	1116	1116	1123	1118	315
175°	1162	1159	1157	1164	1158	110
180°	1164	1164	1164	1164	1164	

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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	42.7	92.5	108.1	114.3
92.5°	25.6	56.8	84.6	102.7	107.9
95°	54.6	85.1	113.5	130.2	133.5
97.5°	88.6	116.3	145.7	162.0	167.3
100°	127.9	152.0	179.6	195.9	199.7
102.5°	168.6	189.1	216.7	233.5	237.4
105°	213.4	229.2	253.9	271.3	276.2
107.5°	258.6	273.1	295.0	311.0	310.9
110°	301.4	316.1	337.6	351.7	353.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	348.6	361.5	380.7	391.8	394.7
115°	394.8	405.4	423.3	435.5	437.4
117.5°	440.4	451.8	465.4	475.6	477.1
120°	486.6	496.3	506.0	518.3	520.2
122.5°	528.8	539.2	550.5	559.4	561.4
125°	572.6	581.5	592.6	601.5	604.5
127.5°	615.9	626.2	634.2	641.2	642.3
130°	656.2	668.4	675.8	684.3	684.0
132.5°	701.3	710.7	718.2	723.5	724.1
135°	740.1	750.9	757.3	765.6	766.2
137.5°	783.4	792.2	796.4	803.8	803.0
140°	821.7	830.1	835.9	842.9	841.7
142.5°	861.0	869.4	872.4	878.6	876.9
145°	897.9	904.8	910.7	914.3	912.5
147.5°	931.3	940.1	944.1	946.4	943.9
150°	965.7	971.6	975.5	978.5	975.5
152.5°	996.1	1002.0	1006.9	1010.9	1006.9
155°	1026.6	1029.5	1032.5	1037.4	1034.5
157.5°	1053.1	1055.1	1057.0	1063.9	1059.0
160°	1076.7	1078.7	1079.6	1085.5	1081.6
162.5°	1098.3	1098.3	1099.3	1106.2	1101.3
165°	1117.0	1116.0	1116.0	1122.9	1118.0
167.5°	1133.7	1130.7	1130.7	1137.6	1132.7
170°	1146.4	1143.5	1142.5	1149.4	1143.5
172.5°	1155.3	1152.3	1151.4	1158.2	1152.3
175°	1162.2	1159.2	1157.3	1164.1	1158.2
177.5°	1166.1	1163.1	1161.2	1167.1	1161.2
180°	1164.1	1164.1	1164.1	1164.1	1164.1

(END OF REPORT)