

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: P1008788

Luminaire Tested: S122DIP-B290D1080UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008788
REPORT IS A COMBINATION OF REPORTS P983855 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D1080UB35-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

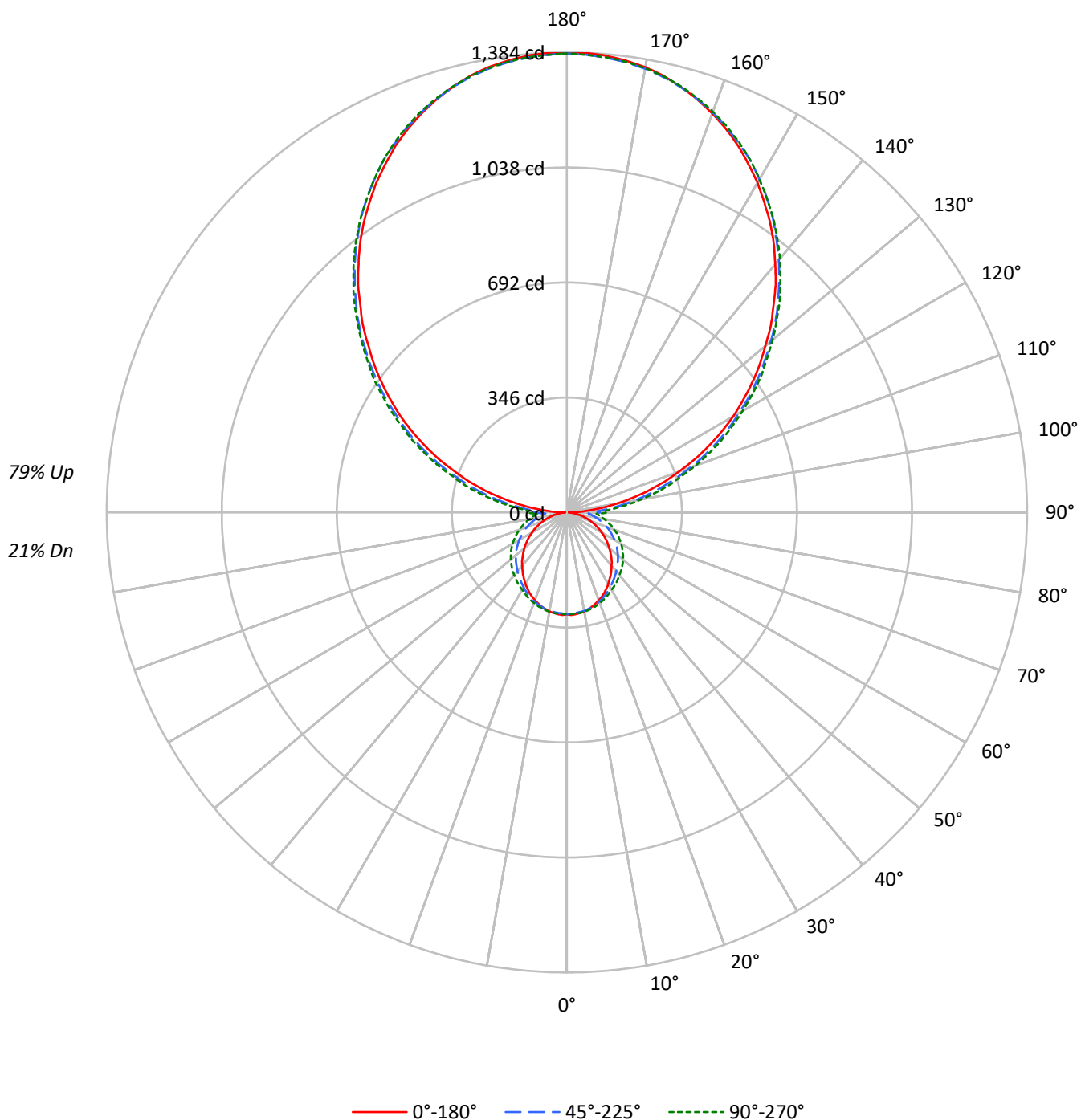
Lumens per Lamp: N/A
Luminaire Lumens: 5035.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	67	67	67		47	47	47		29
1	91	86	82	79	80	76	73	70	58	55	53		41	39	38		25
2	82	75	69	64	72	66	61	57	50	47	44		35	33	31		21
3	75	65	58	53	66	58	52	47	44	40	36		31	28	26		19
4	68	58	50	44	60	51	45	40	39	34	31		27	24	22		17
5	62	51	43	37	55	45	39	34	34	30	26		24	21	19		15
6	57	46	38	32	50	40	34	29	31	26	23		22	19	16		13
7	53	41	33	28	46	36	30	25	28	23	20		20	17	14		12
8	49	37	29	24	43	33	26	22	25	20	17		18	15	13		11
9	45	33	26	21	40	30	24	19	23	18	15		16	13	11		10
10	42	31	24	19	37	27	21	17	21	17	13		15	12	10		9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4850	4850	4850
5°	4872	4643	4617
10°	4839	4483	4417
15°	4770	4315	4212
20°	4684	4141	4017
25°	4599	3973	3840
30°	4479	3804	3665
35°	4360	3639	3537
40°	4232	3498	3409
45°	4112	3370	3298
50°	3982	3252	3188
55°	3845	3126	3076
60°	3678	2994	2959
65°	3505	2843	2824
70°	3309	2682	2678
75°	3054	2520	2542
80°	2659	2351	2399
85°	2260	2192	2276

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	0.6
10°-20°	83.3	1.7
20°-30°	126.2	2.5
30°-40°	153.7	3.1
40°-50°	165.4	3.3
50°-60°	160.6	3.2
60°-70°	140.2	2.8
70°-80°	108.0	2.1
80°-90°	76.2	1.5
90°-100°	135.3	2.7
100°-110°	308.1	6.1
110°-120°	488.9	9.7
120°-130°	624.7	12.4
130°-140°	691.8	13.7
140°-150°	673.9	13.4
150°-160°	564.5	11.2
160°-170°	374.4	7.4
170°-180°	130.8	2.6
0°-30°	238.5	4.7
0°-40°	392.2	7.8
0°-60°	718.2	14.3
0°-90°	1042.6	20.7
90°-120°	932.3	18.5
90°-150°	2922.7	58.0
90°-180°	3992.0	79.3
0°-180°	5035.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	306	306	306	306	306	
5°	307	306	303	306	306	29
15°	293	294	294	298	298	83
25°	266	270	274	279	280	123
35°	230	237	246	255	258	143
45°	188	200	216	230	234	145
55°	144	160	183	199	205	129
65°	99	120	146	165	170	98
75°	55	80	108	127	133	58
85°	16	44	72	91	97	17
90°	6	45	99	115	121	7
95°	64	97	126	142	146	70
105°	253	269	295	312	317	267
115°	468	480	498	510	511	463
125°	679	690	700	709	712	607
135°	878	891	898	906	906	679
145°	1066	1074	1081	1084	1082	666
155°	1218	1222	1225	1231	1228	561
165°	1325	1324	1324	1332	1327	374
175°	1379	1376	1373	1381	1374	131
180°	1381	1381	1381	1381	1381	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	306.4	306.4	306.4	306.4	306.4
2.5°	308.6	307.3	304.1	306.4	305.5
5°	307.3	305.9	303.3	305.9	305.5
7.5°	305.0	304.1	301.9	305.0	304.6
10°	302.4	301.5	300.2	303.7	303.3
12.5°	297.9	298.4	297.5	301.0	300.6
15°	293.0	293.9	293.9	297.9	297.5
17.5°	286.8	288.6	289.9	293.9	293.9
20°	280.6	282.8	284.6	289.5	289.5
22.5°	274.0	276.6	279.3	284.2	285.1
25°	266.4	269.5	273.5	278.8	280.2
27.5°	257.5	262.4	266.9	273.5	274.4
30°	248.6	254.4	260.2	267.3	268.6
32.5°	238.9	245.5	252.6	261.1	263.7
35°	229.6	237.1	245.5	255.3	258.4
37.5°	219.3	227.8	238.4	249.1	252.2
40°	209.1	218.9	230.9	242.4	246.4
42.5°	199.4	209.1	223.3	236.2	240.2
45°	188.3	200.3	215.8	229.6	234.0
47.5°	177.6	190.5	208.2	222.5	227.3
50°	166.5	180.3	200.3	215.3	220.2
52.5°	155.8	170.5	191.8	207.4	212.7
55°	144.3	160.3	183.4	199.4	205.1
57.5°	133.2	151.0	174.1	191.4	197.1
60°	121.2	140.3	165.6	182.5	188.7
62.5°	110.6	130.5	155.8	174.1	179.8
65°	98.6	120.3	146.5	164.7	170.5
67.5°	87.9	110.6	137.2	155.4	161.6
70°	76.4	99.5	127.0	146.1	151.4
72.5°	65.7	89.7	117.7	136.3	143.0
75°	54.6	79.5	107.9	127.0	132.8
77.5°	44.0	69.7	98.6	117.7	123.9
80°	33.3	60.4	89.2	107.9	114.1
82.5°	24.4	51.1	80.4	99.0	104.8
85°	16.0	43.5	71.9	90.6	96.8
87.5°	9.8	36.4	64.8	83.0	88.8
90°	5.6	45.4	99.4	114.9	121.3
92.5°	29.6	62.5	90.7	109.2	114.6
95°	64.2	96.7	125.7	142.5	145.6
97.5°	104.5	134.1	164.6	181.0	186.3
100°	151.1	176.9	205.3	221.7	225.4
102.5°	199.7	221.3	250.0	267.1	270.9
105°	252.8	269.2	294.7	312.5	317.4
107.5°	306.5	321.8	344.0	360.3	359.4
110°	357.3	373.2	394.9	409.1	410.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	413.3	427.4	446.6	457.3	459.9
115°	468.1	480.0	497.6	509.8	511.1
117.5°	522.4	535.3	548.1	558.0	558.9
120°	577.2	588.3	596.8	609.2	610.6
122.5°	627.3	639.4	650.0	658.5	660.2
125°	679.3	689.8	700.5	709.0	711.9
127.5°	730.6	743.0	750.3	756.7	757.2
130°	778.4	793.1	800.2	808.4	807.4
132.5°	832.1	843.2	851.1	855.5	855.6
135°	878.2	891.0	897.8	906.0	906.1
137.5°	929.5	940.0	944.6	951.8	950.3
140°	974.9	985.0	991.8	998.9	996.9
142.5°	1021.6	1031.7	1035.2	1041.6	1039.2
145°	1065.5	1073.6	1080.6	1084.5	1082.0
147.5°	1105.1	1115.6	1120.3	1123.0	1119.7
150°	1145.9	1152.9	1157.6	1161.1	1157.6
152.5°	1182.0	1189.0	1194.9	1199.5	1194.9
155°	1218.2	1221.7	1225.2	1231.0	1227.5
157.5°	1249.7	1252.0	1254.3	1262.5	1256.6
160°	1277.6	1280.0	1281.1	1288.1	1283.5
162.5°	1303.3	1303.3	1304.4	1312.6	1306.8
165°	1325.4	1324.3	1324.3	1332.4	1326.6
167.5°	1345.2	1341.7	1341.7	1349.9	1344.1
170°	1360.4	1356.9	1355.7	1363.9	1356.9
172.5°	1370.9	1367.4	1366.2	1374.4	1367.4
175°	1379.0	1375.5	1373.2	1381.4	1374.4
177.5°	1383.7	1380.2	1377.9	1384.9	1377.9
180°	1381.4	1381.4	1381.4	1381.4	1381.4

(END OF REPORT)