

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: P1008858

Luminaire Tested: S122DIP-B290D530UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008858
REPORT IS A COMBINATION OF REPORTS P983943 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D530UB27-4F0-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

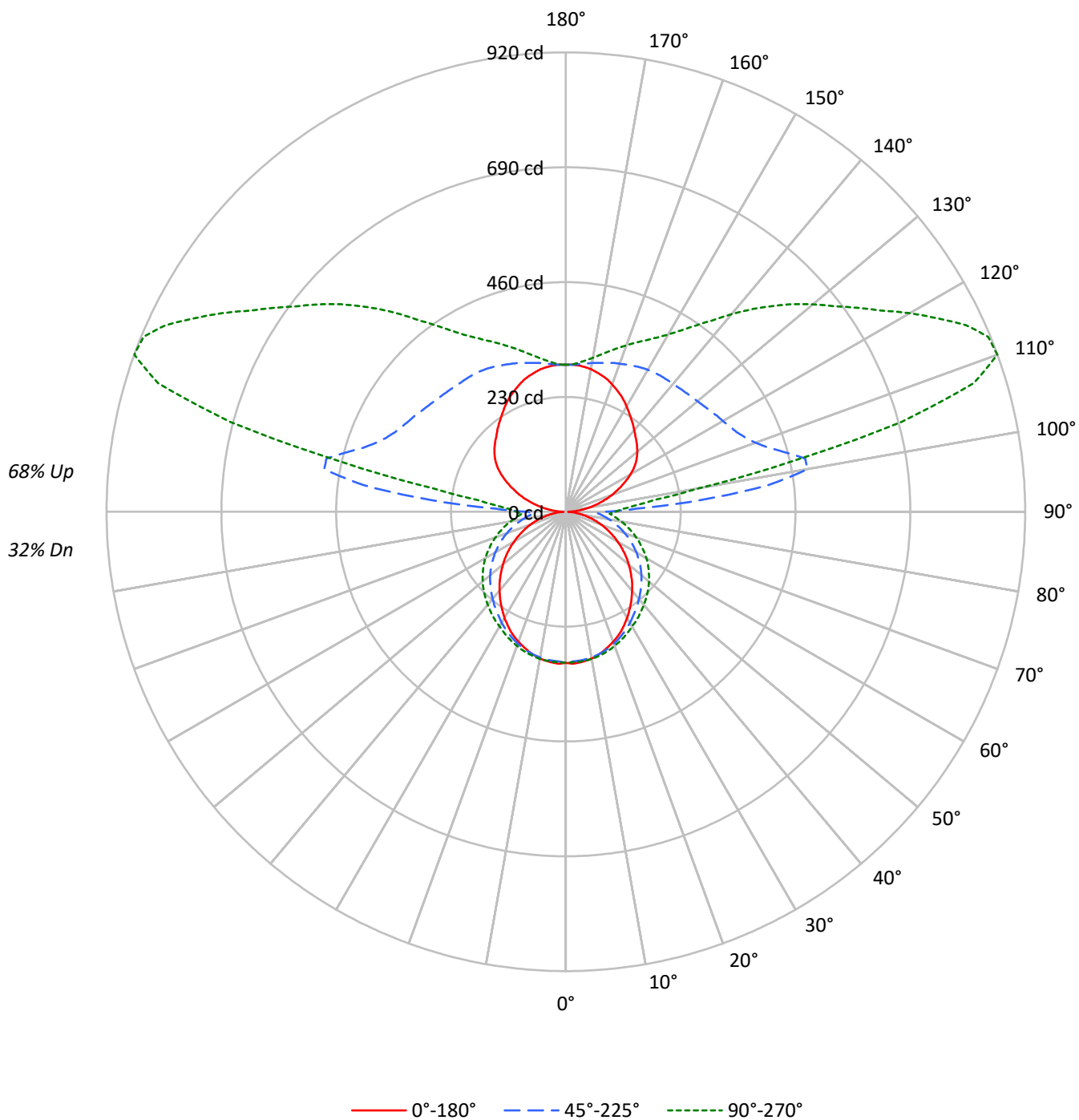
Lumens per Lamp: N/A
Luminaire Lumens: 3209.4 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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

TEST NUMBER: P1008858

CATALOG NUMBER: S122DIP-B290D530UB27-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1008858

CATALOG NUMBER: S122DIP-B290D530UB27-4F0-XX-W2A-D4

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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40
1	93	88	84	80	83	79	76	73	63	60	58	47	46	44	33	32	31
2	84	76	70	65	75	69	63	59	54	51	47	41	39	36	29	27	26
3	76	67	59	53	68	60	54	49	48	43	39	36	33	30	25	23	21
4	70	59	51	45	62	53	46	41	42	37	33	32	28	26	22	20	18
5	64	52	44	38	57	47	40	35	37	32	28	28	25	22	20	18	16
6	59	47	38	33	52	42	35	30	33	28	24	26	22	19	18	16	14
7	54	42	34	28	48	38	31	26	30	25	21	23	19	17	16	14	12
8	50	38	30	25	45	34	27	23	27	22	19	21	17	15	15	13	11
9	46	34	27	22	42	31	25	20	25	20	17	19	16	13	14	11	10
10	43	31	24	19	39	28	22	18	23	18	15	18	14	12	13	10	9

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

TEST NUMBER: P1008858

CATALOG NUMBER: S122DIP-B290D530UB27-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.9
10°-20°	82.2	2.6
20°-30°	124.6	3.9
30°-40°	151.7	4.7
40°-50°	163.2	5.1
50°-60°	158.5	4.9
60°-70°	138.4	4.3
70°-80°	106.6	3.3
80°-90°	73.2	2.3
90°-100°	168.6	5.3
100°-110°	439.6	13.7
110°-120°	448.0	14.0
120°-130°	362.1	11.3
130°-140°	285.9	8.9
140°-150°	212.7	6.6
150°-160°	148.9	4.6
160°-170°	87.7	2.7
170°-180°	28.5	0.9
0°-30°	235.5	7.3
0°-40°	387.2	12.1
0°-60°	709.0	22.1
0°-90°	1027.2	32.0
90°-120°	1056.3	32.9
90°-150°	1917.0	59.7
90°-180°	2182.0	68.0
0°-180°	3209.4	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	37	77	94	99	4
95°	23	73	272	151	137	23
105°	71	119	457	803	696	76
115°	124	160	378	764	884	122
125°	171	202	352	614	712	152
135°	200	238	338	507	582	154
145°	228	262	332	415	456	143
155°	259	280	322	364	379	119
165°	282	291	309	327	332	80
175°	294	294	297	300	300	28
180°	294	294	294	294	294	

TEST NUMBER: P1008858

CATALOG NUMBER: S122DIP-B290D530UB27-4F0-XX-W2A-D4

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°	5.0	37.4	77.2	93.8	99.4
92.5°	12.4	54.1	141.1	111.2	110.9
95°	23.3	72.8	272.4	151.0	136.9
97.5°	32.6	86.2	409.2	231.8	177.0
100°	46.7	98.0	491.3	395.0	267.7
102.5°	59.2	108.8	491.1	622.9	456.7
105°	71.3	119.1	457.4	803.2	696.2
107.5°	84.9	129.4	426.0	866.2	856.4
110°	98.1	139.9	404.1	852.0	919.7

TEST NUMBER: P1008858

CATALOG NUMBER: S122DIP-B290D530UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110.5	150.4	388.6	812.4	915.5
115°	123.6	160.4	377.5	764.1	884.3
117.5°	136.7	170.8	369.8	718.4	838.9
120°	149.1	181.0	363.3	676.6	795.5
122.5°	161.0	191.8	358.4	643.8	749.7
125°	170.8	202.0	352.5	613.8	712.1
127.5°	179.3	212.0	348.2	587.4	676.3
130°	186.7	221.3	344.3	561.1	646.2
132.5°	193.5	230.4	341.2	534.0	615.3
135°	199.8	238.3	338.4	507.4	582.2
137.5°	206.0	245.0	336.2	480.6	549.8
140°	213.4	251.0	333.9	456.5	516.3
142.5°	220.7	256.0	333.0	433.8	483.3
145°	227.7	261.6	331.9	414.6	455.7
147.5°	235.6	266.2	330.2	398.0	430.6
150°	243.6	270.7	328.5	385.2	409.5
152.5°	251.5	275.2	325.7	374.6	393.1
155°	258.8	279.6	322.3	364.5	378.9
157.5°	265.1	282.9	318.9	354.8	366.5
160°	271.3	286.3	315.5	345.2	354.6
162.5°	277.5	288.8	312.7	336.2	343.2
165°	282.1	290.6	308.7	327.4	332.5
167.5°	286.0	292.2	305.3	319.5	322.3
170°	290.0	293.2	302.5	312.1	313.2
172.5°	292.3	294.0	299.1	305.6	305.9
175°	294.0	294.2	296.8	300.5	299.6
177.5°	295.1	294.5	294.5	296.8	295.1
180°	294.5	294.5	294.5	294.5	294.5

(END OF REPORT)