

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: P1008867

Luminaire Tested: S122DIP-B290D530UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008867
REPORT IS A COMBINATION OF REPORTS P983967 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D530UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

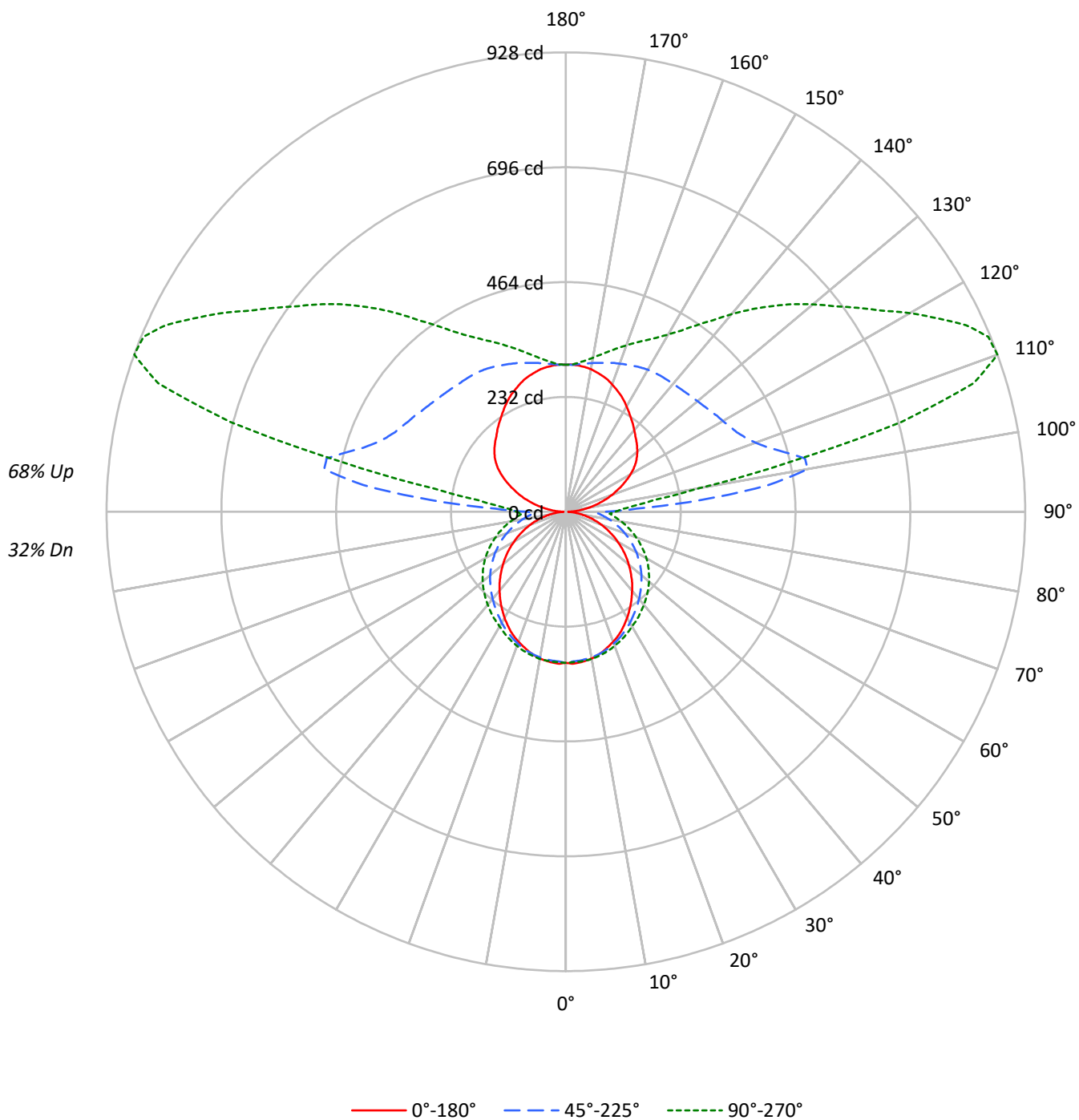
Lumens per Lamp: N/A
Luminaire Lumens: 3237.3 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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	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°	4830	4830	4830
5°	4850	4623	4597
10°	4818	4463	4398
15°	4750	4297	4193
20°	4664	4123	4000
25°	4580	3956	3824
30°	4461	3788	3650
35°	4341	3624	3522
40°	4214	3483	3395
45°	4095	3356	3284
50°	3965	3237	3175
55°	3829	3112	3064
60°	3663	2981	2947
65°	3487	2832	2812
70°	3291	2670	2668
75°	3043	2509	2530
80°	2651	2343	2388
85°	2246	2183	2267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	0.9
10°-20°	82.9	2.6
20°-30°	125.7	3.9
30°-40°	153.0	4.7
40°-50°	164.7	5.1
50°-60°	159.9	4.9
60°-70°	139.6	4.3
70°-80°	107.5	3.3
80°-90°	73.9	2.3
90°-100°	170.1	5.3
100°-110°	443.4	13.7
110°-120°	451.9	14.0
120°-130°	365.3	11.3
130°-140°	288.4	8.9
140°-150°	214.6	6.6
150°-160°	150.2	4.6
160°-170°	88.4	2.7
170°-180°	28.8	0.9
0°-30°	237.5	7.3
0°-40°	390.6	12.1
0°-60°	715.1	22.1
0°-90°	1036.1	32.0
90°-120°	1065.5	32.9
90°-150°	1933.8	59.7
90°-180°	2201.0	68.0
0°-180°	3237.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	306	305	302	305	304	29
15°	292	293	293	297	296	82
25°	265	268	272	278	279	122
35°	229	236	244	254	257	143
45°	188	199	215	229	233	145
55°	144	160	183	198	204	129
65°	98	120	146	164	170	98
75°	54	79	107	126	132	58
85°	16	43	72	90	96	17
90°	5	38	78	95	100	4
95°	24	73	275	152	138	23
105°	72	120	461	810	702	77
115°	125	162	381	771	892	123
125°	172	204	356	619	718	153
135°	202	240	341	512	587	156
145°	230	264	335	418	460	144
155°	261	282	325	368	382	120
165°	284	293	311	330	335	80
175°	296	297	299	303	302	28
180°	297	297	297	297	297	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.1	305.1	305.1	305.1	305.1
2.5°	307.3	305.9	302.8	305.1	304.2
5°	305.9	304.6	302.0	304.6	304.2
7.5°	303.7	302.8	300.6	303.7	303.3
10°	301.1	300.2	298.9	302.4	302.0
12.5°	296.7	297.1	296.2	299.8	299.3
15°	291.8	292.7	292.7	296.7	296.2
17.5°	285.6	287.4	288.7	292.7	292.7
20°	279.4	281.6	283.4	288.3	288.3
22.5°	272.8	275.4	278.1	283.0	283.8
25°	265.3	268.4	272.3	277.6	279.0
27.5°	256.4	261.3	265.7	272.3	273.2
30°	247.6	253.3	259.1	266.2	267.5
32.5°	237.9	244.5	251.6	260.0	262.6
35°	228.6	236.1	244.5	254.2	257.3
37.5°	218.4	226.8	237.4	248.0	251.1
40°	208.2	218.0	229.9	241.4	245.4
42.5°	198.5	208.2	222.4	235.2	239.2
45°	187.5	199.4	214.9	228.6	233.0
47.5°	176.8	189.7	207.4	221.5	226.4
50°	165.8	179.5	199.4	214.4	219.3
52.5°	155.2	169.8	191.0	206.5	211.8
55°	143.7	159.6	182.6	198.5	204.3
57.5°	132.6	150.3	173.3	190.6	196.3
60°	120.7	139.7	164.9	181.7	187.9
62.5°	110.1	130.0	155.2	173.3	179.1
65°	98.1	119.8	145.9	164.0	169.8
67.5°	87.5	110.1	136.6	154.7	160.9
70°	76.0	99.0	126.4	145.5	150.8
72.5°	65.4	89.3	117.2	135.7	142.4
75°	54.4	79.1	107.4	126.4	132.2
77.5°	43.8	69.4	98.1	117.2	123.4
80°	33.2	60.1	88.9	107.4	113.6
82.5°	24.3	50.8	80.0	98.6	104.3
85°	15.9	43.3	71.6	90.2	96.4
87.5°	9.7	36.3	64.5	82.7	88.4
90°	5.0	37.8	77.8	94.6	100.2
92.5°	12.6	54.6	142.4	112.2	111.8
95°	23.5	73.4	274.8	152.1	138.0
97.5°	32.8	86.9	412.8	233.8	178.5
100°	47.1	98.9	495.6	398.6	269.9
102.5°	59.8	109.8	495.3	628.4	460.7
105°	71.9	120.1	461.4	810.2	702.3
107.5°	85.6	130.5	429.7	873.9	863.9
110°	98.9	141.2	407.7	859.4	927.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	111.5	151.7	392.0	819.5	923.5
115°	124.6	161.7	380.7	770.8	892.0
117.5°	137.9	172.3	373.1	724.6	846.2
120°	150.4	182.5	366.5	682.6	802.5
122.5°	162.4	193.5	361.5	649.4	756.2
125°	172.3	203.7	355.5	619.2	718.3
127.5°	180.9	213.8	351.2	592.5	682.2
130°	188.3	223.2	347.4	565.9	651.8
132.5°	195.2	232.4	344.2	538.6	620.7
135°	201.5	240.4	341.4	511.8	587.4
137.5°	207.8	247.3	339.2	484.8	554.6
140°	215.2	253.1	336.9	460.6	520.8
142.5°	222.7	258.2	336.0	437.5	487.4
145°	229.7	264.0	334.8	418.4	459.7
147.5°	237.7	268.6	333.1	401.5	434.3
150°	245.7	273.2	331.4	388.5	413.1
152.5°	253.7	277.7	328.5	378.0	396.5
155°	261.1	282.0	325.1	367.6	382.2
157.5°	267.4	285.4	321.7	358.0	369.7
160°	273.7	288.8	318.3	348.2	357.7
162.5°	280.0	291.4	315.4	339.1	346.2
165°	284.5	293.1	311.4	330.2	335.4
167.5°	288.5	294.8	308.0	322.2	325.1
170°	292.5	295.6	305.1	314.8	316.0
172.5°	294.8	296.6	301.7	308.2	308.5
175°	296.5	296.8	299.4	303.1	302.3
177.5°	297.7	297.1	297.1	299.4	297.7
180°	297.1	297.1	297.1	297.1	297.1

(END OF REPORT)