

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: P1008822

Luminaire Tested: S122DIP-B290D330UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008822
REPORT IS A COMBINATION OF REPORTS P983907 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D330UB30-4F0-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

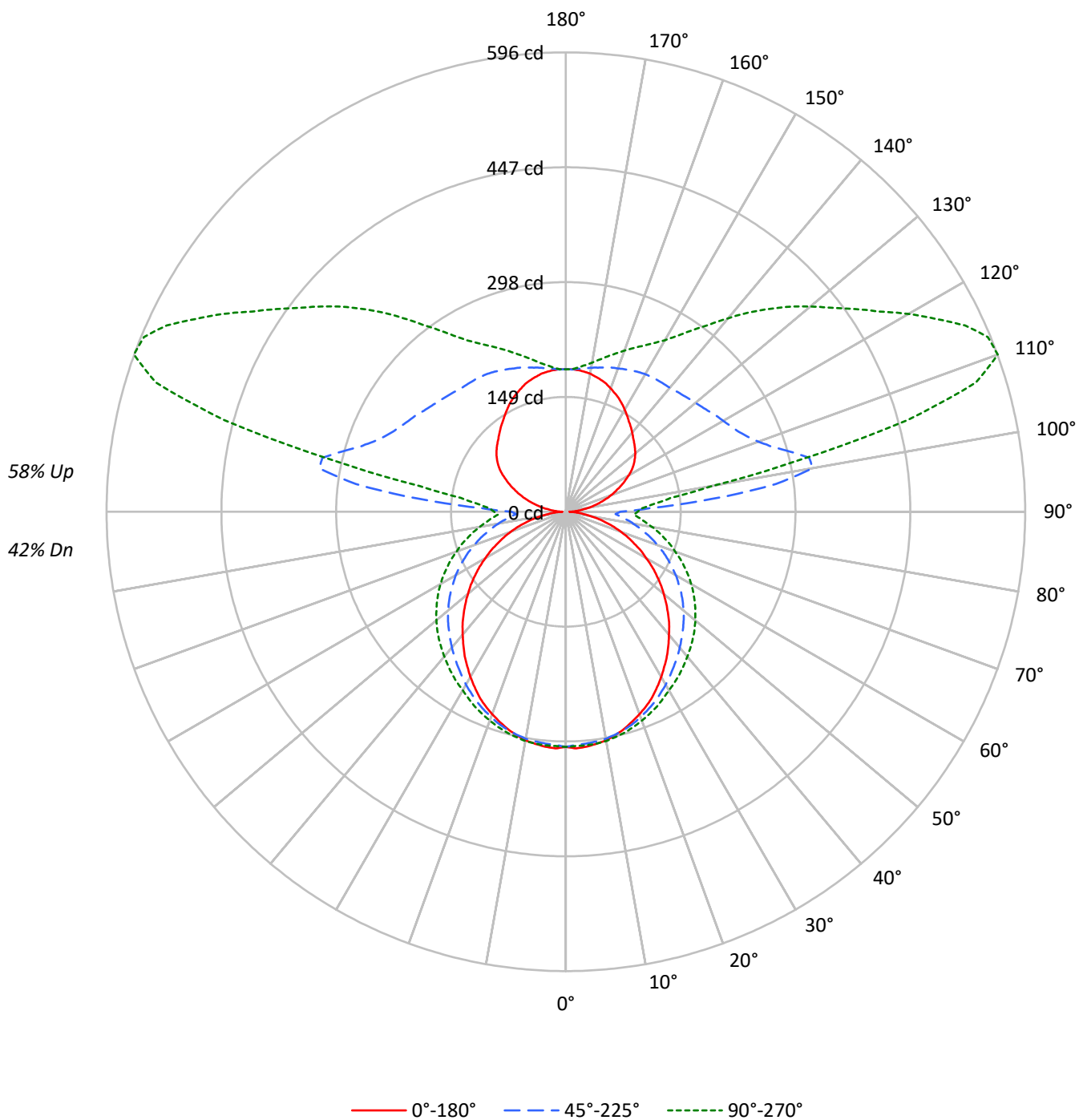
Lumens per Lamp: N/A
Luminaire Lumens: 2453.4 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	49	49	42
1	95	90	86	82	86	82	78	75	67	65	62	54	52	50	41	40	39	39	39	33
2	86	78	71	66	78	71	65	60	58	54	50	46	43	41	36	34	32	32	32	27
3	78	68	60	54	71	62	55	50	51	46	42	41	37	34	31	29	26	26	26	22
4	71	60	52	45	64	55	47	42	45	40	35	36	32	29	28	25	22	22	22	18
5	65	53	45	38	59	49	41	36	40	34	30	32	28	25	25	22	19	19	19	16
6	60	47	39	33	54	43	36	31	36	30	26	29	25	21	22	19	17	17	17	14
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15	15	15	12
8	51	39	31	25	46	35	28	24	29	24	20	24	20	17	19	15	13	13	13	11
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12	12	12	10
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11	11	11	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	1.2
10°-20°	82.9	3.4
20°-30°	125.7	5.1
30°-40°	153.0	6.2
40°-50°	164.7	6.7
50°-60°	159.9	6.5
60°-70°	139.6	5.7
70°-80°	107.5	4.4
80°-90°	73.2	3.0
90°-100°	124.5	5.1
100°-110°	289.5	11.8
110°-120°	290.1	11.8
120°-130°	232.2	9.5
130°-140°	181.5	7.4
140°-150°	133.8	5.5
150°-160°	93.4	3.8
160°-170°	55.0	2.2
170°-180°	17.9	0.7
0°-30°	237.5	9.7
0°-40°	390.6	15.9
0°-60°	715.1	29.1
0°-90°	1035.4	42.2
90°-120°	704.2	28.7
90°-150°	1251.7	51.0
90°-180°	1418.0	57.8
0°-180°	2453.4	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	35	70	88	93	4
95°	16	55	190	120	113	16
105°	46	80	301	524	459	49
115°	78	103	247	494	572	77
125°	108	127	227	395	458	96
135°	126	150	214	324	372	97
145°	143	164	208	261	288	90
155°	162	175	202	229	238	75
165°	177	182	194	205	209	50
175°	184	185	186	188	188	18
180°	185	185	185	185	185	

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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°	4.8	34.9	70.5	87.6	93.0
92.5°	9.3	44.2	109.1	96.8	98.6
95°	15.9	54.8	190.1	120.2	113.4
97.5°	21.6	62.4	274.8	169.6	137.3
100°	30.5	68.9	324.9	270.8	192.6
102.5°	38.2	74.8	323.6	412.3	309.9
105°	45.6	80.4	301.3	524.2	458.9
107.5°	54.1	86.0	280.4	562.4	558.0
110°	62.2	91.8	265.8	552.1	596.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	70.0	97.6	254.8	526.0	592.6
115°	78.2	103.1	246.8	494.5	571.7
117.5°	86.2	109.0	240.9	464.5	541.8
120°	94.0	114.7	235.8	437.0	513.5
122.5°	101.5	121.0	231.7	415.3	483.2
125°	107.5	127.0	226.8	395.3	458.4
127.5°	112.8	133.2	223.1	377.3	434.6
130°	117.5	139.0	219.7	359.7	414.4
132.5°	121.7	144.6	216.8	341.4	393.9
135°	125.5	149.6	214.2	323.7	372.0
137.5°	129.4	153.9	212.0	305.7	350.3
140°	134.0	157.4	209.8	289.5	327.9
142.5°	138.6	160.6	208.9	274.1	306.0
145°	142.8	164.2	208.2	261.2	287.8
147.5°	147.8	167.0	207.2	249.8	270.8
150°	152.8	169.9	206.1	241.6	256.9
152.5°	157.8	172.7	204.3	235.0	246.6
155°	162.4	175.4	202.2	228.6	237.7
157.5°	166.3	177.5	200.1	222.6	229.9
160°	170.2	179.6	197.9	216.6	222.4
162.5°	174.1	181.2	196.2	210.9	215.3
165°	177.0	182.3	193.7	205.4	208.6
167.5°	179.4	183.4	191.5	200.4	202.2
170°	181.9	183.9	189.8	195.8	196.5
172.5°	183.4	184.4	187.6	191.7	191.9
175°	184.4	184.6	186.2	188.5	188.0
177.5°	185.1	184.8	184.8	186.2	185.1
180°	184.8	184.8	184.8	184.8	184.8

(END OF REPORT)