

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: P1008820

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008820
REPORT IS A COMBINATION OF REPORTS P983905 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-D
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

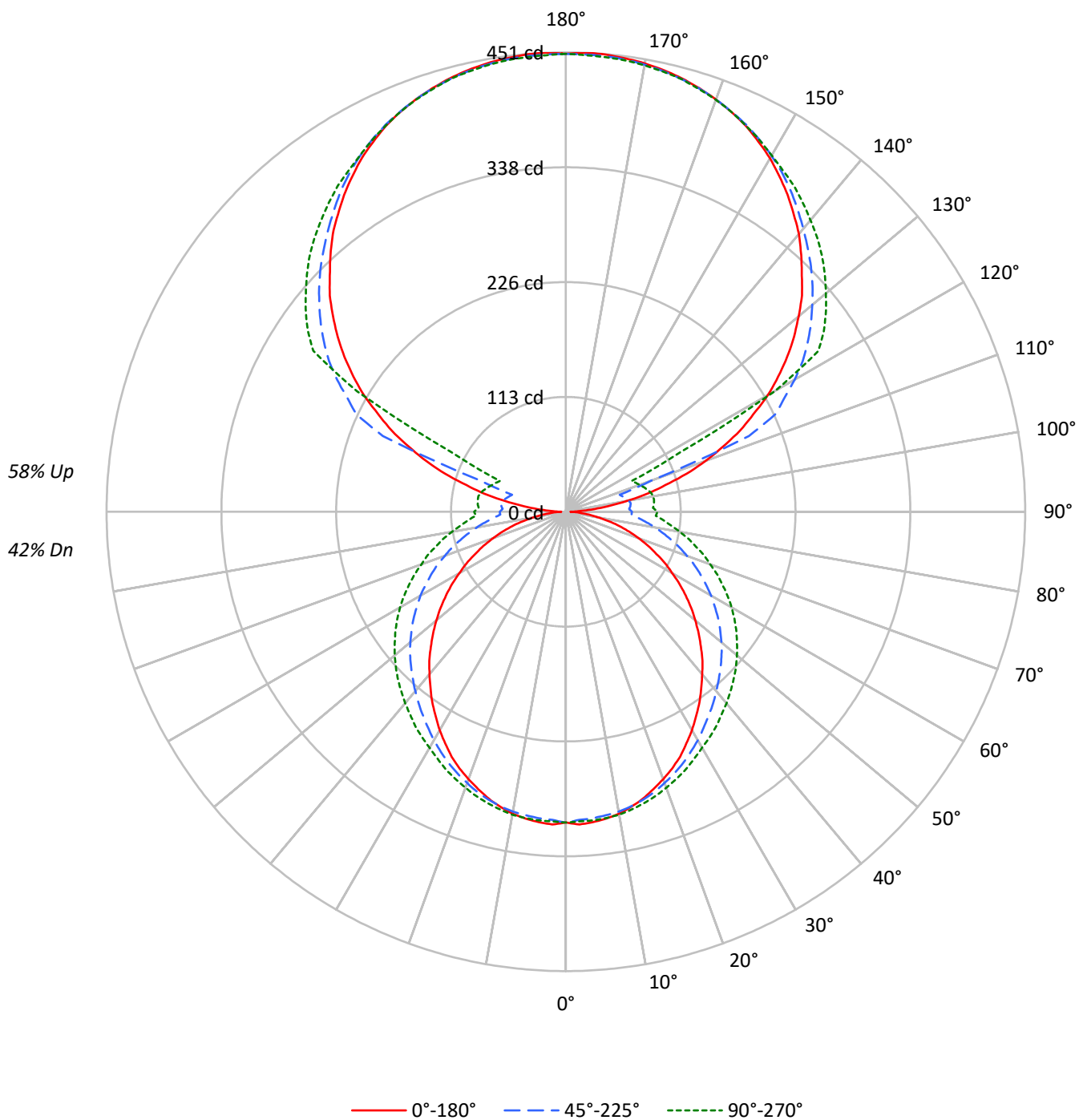
Lumens per Lamp: N/A
Luminaire Lumens: 2482.9 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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
RW	70	50	30	10	70	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	48	48	48
1	95	90	86	82	86	82	78	75	67	64	62	53	52	50	41	40	38
2	86	78	71	66	78	71	65	60	58	54	50	46	43	41	35	33	31
3	78	68	60	54	70	62	55	50	51	46	42	40	37	34	31	28	26
4	71	60	52	45	64	55	47	42	45	39	35	36	32	29	27	24	22
5	65	53	45	38	59	48	41	36	40	34	30	32	28	24	24	21	19
6	60	47	39	33	54	43	36	31	36	30	26	29	24	21	22	19	17
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15
8	51	39	31	25	46	35	28	24	29	24	20	24	20	16	18	15	13
9	47	35	28	22	43	32	25	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	19	16	20	16	13	16	13	11

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	3.3
20°-30°	125.7	5.1
30°-40°	153.0	6.2
40°-50°	164.7	6.6
50°-60°	159.9	6.4
60°-70°	139.6	5.6
70°-80°	107.5	4.3
80°-90°	72.8	2.9
90°-100°	64.5	2.6
100°-110°	91.5	3.7
110°-120°	170.5	6.9
120°-130°	256.5	10.3
130°-140°	263.8	10.6
140°-150°	241.0	9.7
150°-160°	193.0	7.8
160°-170°	124.3	5.0
170°-180°	42.8	1.7
0°-30°	237.5	9.6
0°-40°	390.6	15.7
0°-60°	715.1	28.8
0°-90°	1035.0	41.7
90°-120°	326.5	13.2
90°-150°	1087.8	43.8
90°-180°	1448.0	58.3
0°-180°	2482.9	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	34	65	84	90	4
95°	25	35	64	82	87	28
105°	101	124	58	77	83	108
115°	189	199	227	90	71	186
125°	265	270	290	304	309	237
135°	328	333	340	353	356	253
145°	380	379	385	390	390	238
155°	418	415	419	421	418	193
165°	440	439	440	442	440	124
175°	451	448	449	451	448	43
180°	450	450	450	450	450	

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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°	4.7	34.0	64.9	84.1	90.1
92.5°	12.1	34.2	62.2	80.1	85.7
95°	24.6	34.7	63.5	81.9	86.9
97.5°	41.2	33.5	64.3	81.7	87.3
100°	60.7	32.5	62.7	81.7	87.2
102.5°	81.8	95.6	60.3	79.8	85.7
105°	101.1	123.7	57.8	76.9	83.1
107.5°	124.2	142.9	55.4	74.1	80.2
110°	145.9	161.6	89.2	70.8	77.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	166.8	179.6	194.5	68.4	74.2
115°	188.9	199.2	227.2	89.9	71.4
117.5°	207.6	217.7	241.7	208.5	127.6
120°	229.1	235.7	259.3	275.6	236.5
122.5°	247.3	253.0	275.8	289.7	294.0
125°	265.4	269.6	289.9	304.2	309.1
127.5°	282.3	286.4	303.3	317.5	321.9
130°	298.3	303.0	315.9	330.0	333.3
132.5°	314.5	318.3	328.6	341.6	344.9
135°	327.7	332.9	340.3	352.8	355.7
137.5°	342.0	345.9	351.5	363.1	365.2
140°	356.0	358.2	362.7	372.7	373.7
142.5°	367.7	369.6	373.8	381.7	382.3
145°	379.7	379.4	384.9	389.9	390.5
147.5°	390.4	389.5	395.0	397.0	397.1
150°	400.8	398.6	403.8	405.7	404.1
152.5°	409.6	407.0	411.9	413.9	411.6
155°	418.1	415.2	419.1	421.0	418.4
157.5°	424.9	422.3	425.2	427.5	424.9
160°	430.8	428.8	430.8	432.7	430.5
162.5°	436.0	434.0	435.7	437.9	435.0
165°	440.5	438.6	439.6	441.8	439.6
167.5°	444.1	442.2	443.1	445.4	442.5
170°	447.0	445.1	445.7	448.0	445.1
172.5°	449.0	447.0	447.7	450.0	447.0
175°	450.6	448.3	449.0	451.3	448.0
177.5°	451.3	449.0	449.3	451.6	448.7
180°	449.6	449.6	449.6	449.6	449.6

(END OF REPORT)