

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: P1008865

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008865
REPORT IS A COMBINATION OF REPORTS P983965 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-D
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

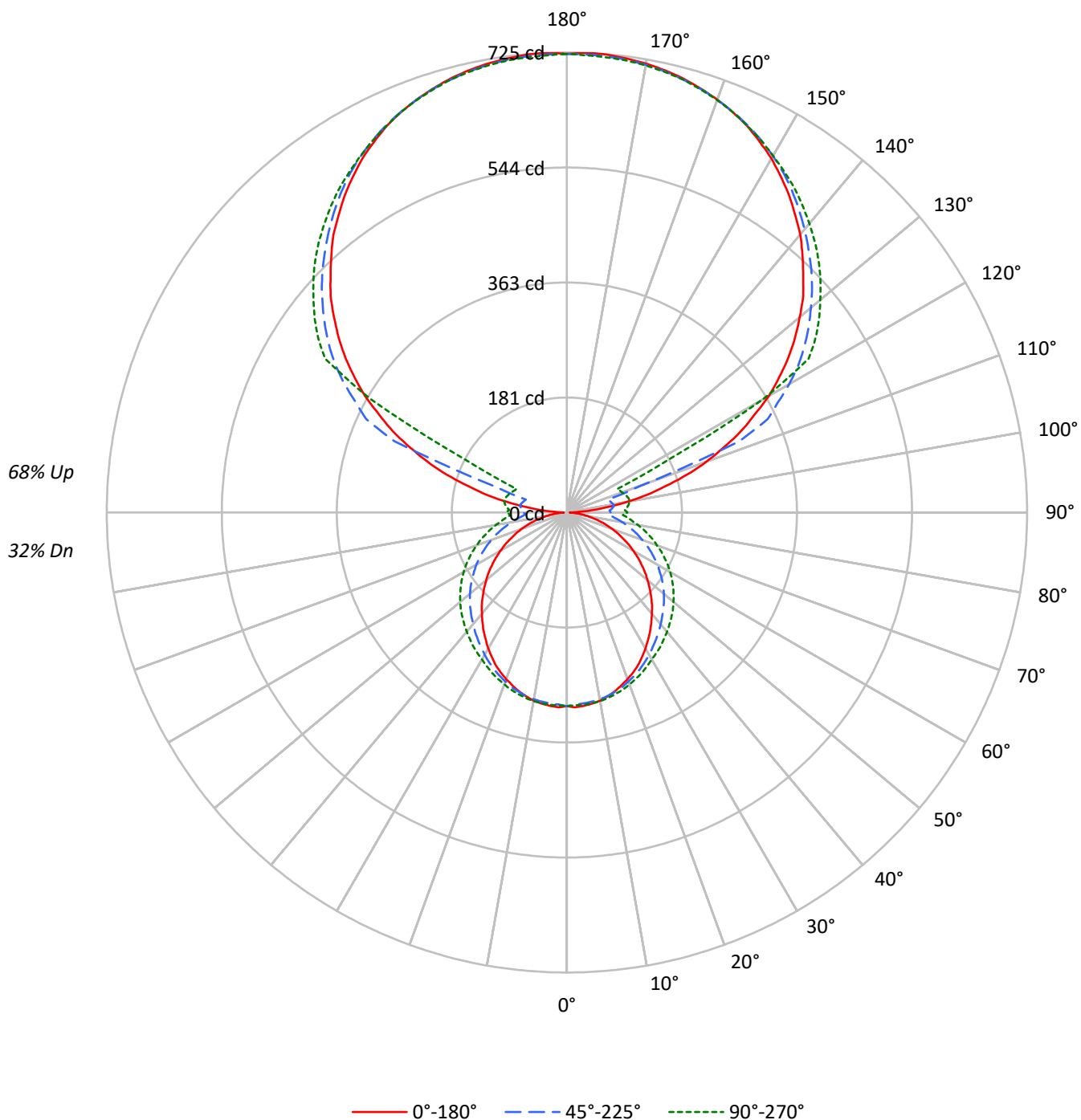
Lumens per Lamp: N/A
Luminaire Lumens: 3284.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1008865

CATALOG NUMBER: S122DIP-B290D530UB30-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1008865

CATALOG NUMBER: S122DIP-B290D530UB30-4F0-XX-W2A-D

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	92	92	92	92	73	73	73	55	55	55	39	39	39
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	50	47	41	38	36	29	27	25
3	76	67	59	53	68	60	54	49	47	43	39	36	33	30	25	23	21
4	70	59	51	45	62	53	46	41	42	37	33	32	28	25	22	20	18
5	64	52	44	38	57	47	40	35	37	32	28	28	25	22	20	17	16
6	59	46	38	33	52	42	35	30	33	28	24	25	22	19	18	15	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	12	11
9	46	34	27	22	42	31	25	20	25	20	17	19	16	13	14	11	9
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

TEST NUMBER: P1008865

CATALOG NUMBER: S122DIP-B290D530UB30-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	0.9
10°-20°	82.9	2.5
20°-30°	125.7	3.8
30°-40°	153.0	4.7
40°-50°	164.7	5.0
50°-60°	159.9	4.9
60°-70°	139.6	4.3
70°-80°	107.5	3.3
80°-90°	73.2	2.2
90°-100°	73.5	2.2
100°-110°	125.1	3.8
110°-120°	259.6	7.9
120°-130°	404.1	12.3
130°-140°	420.7	12.8
140°-150°	386.7	11.8
150°-160°	310.2	9.4
160°-170°	199.9	6.1
170°-180°	68.8	2.1
0°-30°	237.5	7.2
0°-40°	390.6	11.9
0°-60°	715.1	21.8
0°-90°	1035.5	31.5
90°-120°	458.1	14.0
90°-150°	1669.7	50.8
90°-180°	2248.0	68.5
0°-180°	3284.0	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	36	69	89	95	5
95°	38	41	71	91	95	43
105°	161	190	70	91	98	172
115°	302	316	349	120	88	298
125°	426	433	457	472	478	380
135°	526	535	544	558	561	407
145°	610	610	619	625	625	382
155°	672	667	674	677	672	310
165°	708	705	706	710	706	200
175°	724	721	722	725	720	69
180°	723	723	723	723	723	

TEST NUMBER: P1008865

CATALOG NUMBER: S122DIP-B290D530UB30-4F0-XX-W2A-D

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°	4.9	36.4	68.9	89.1	95.4
92.5°	17.1	38.4	67.0	85.2	91.0
95°	37.5	41.0	71.2	90.6	95.4
97.5°	64.3	40.4	74.4	92.3	98.2
100°	95.7	40.4	74.0	94.6	100.4
102.5°	129.8	143.2	72.0	93.6	100.1
105°	161.2	189.7	69.9	91.2	98.1
107.5°	198.3	222.0	67.8	88.7	95.6
110°	233.5	253.2	123.8	85.6	92.6

TEST NUMBER: P1008865

CATALOG NUMBER: S122DIP-B290D530UB30-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266.9	283.3	294.9	83.6	90.0
115°	302.5	316.2	349.2	120.3	87.6
117.5°	332.8	346.9	374.3	312.8	180.2
120°	367.4	377.0	404.1	422.8	357.0
122.5°	396.6	405.5	432.3	447.4	451.8
125°	426.1	432.9	456.9	472.5	478.0
127.5°	453.2	460.1	479.9	496.1	500.7
130°	478.9	486.7	501.8	518.1	521.2
132.5°	505.0	511.3	523.8	538.6	541.7
135°	526.5	534.8	544.1	558.5	561.0
137.5°	549.5	555.8	563.3	576.9	578.4
140°	572.0	575.8	582.4	594.2	594.2
142.5°	590.8	594.1	600.9	610.3	609.9
145°	610.3	609.8	618.6	625.0	624.6
147.5°	627.5	626.0	634.9	637.9	637.2
150°	644.3	640.6	649.0	652.1	649.5
152.5°	658.4	654.2	662.0	665.2	661.5
155°	672.0	667.3	673.6	676.7	672.5
157.5°	683.0	678.8	683.5	687.1	683.0
160°	692.4	689.2	692.4	695.5	691.9
162.5°	700.7	697.6	700.2	703.9	699.2
165°	708.1	704.9	706.5	710.2	706.5
167.5°	713.8	710.7	712.2	715.9	711.2
170°	718.5	715.4	716.4	720.1	715.4
172.5°	721.7	718.5	719.6	723.2	718.5
175°	724.3	720.6	721.7	725.3	720.1
177.5°	725.3	721.7	722.2	725.8	721.1
180°	722.7	722.7	722.7	722.7	722.7

(END OF REPORT)