

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: P1028118

Luminaire Tested: S125DIP-B610D610UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028118
REPORT IS A COMBINATION OF REPORTS P1002327 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D610UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

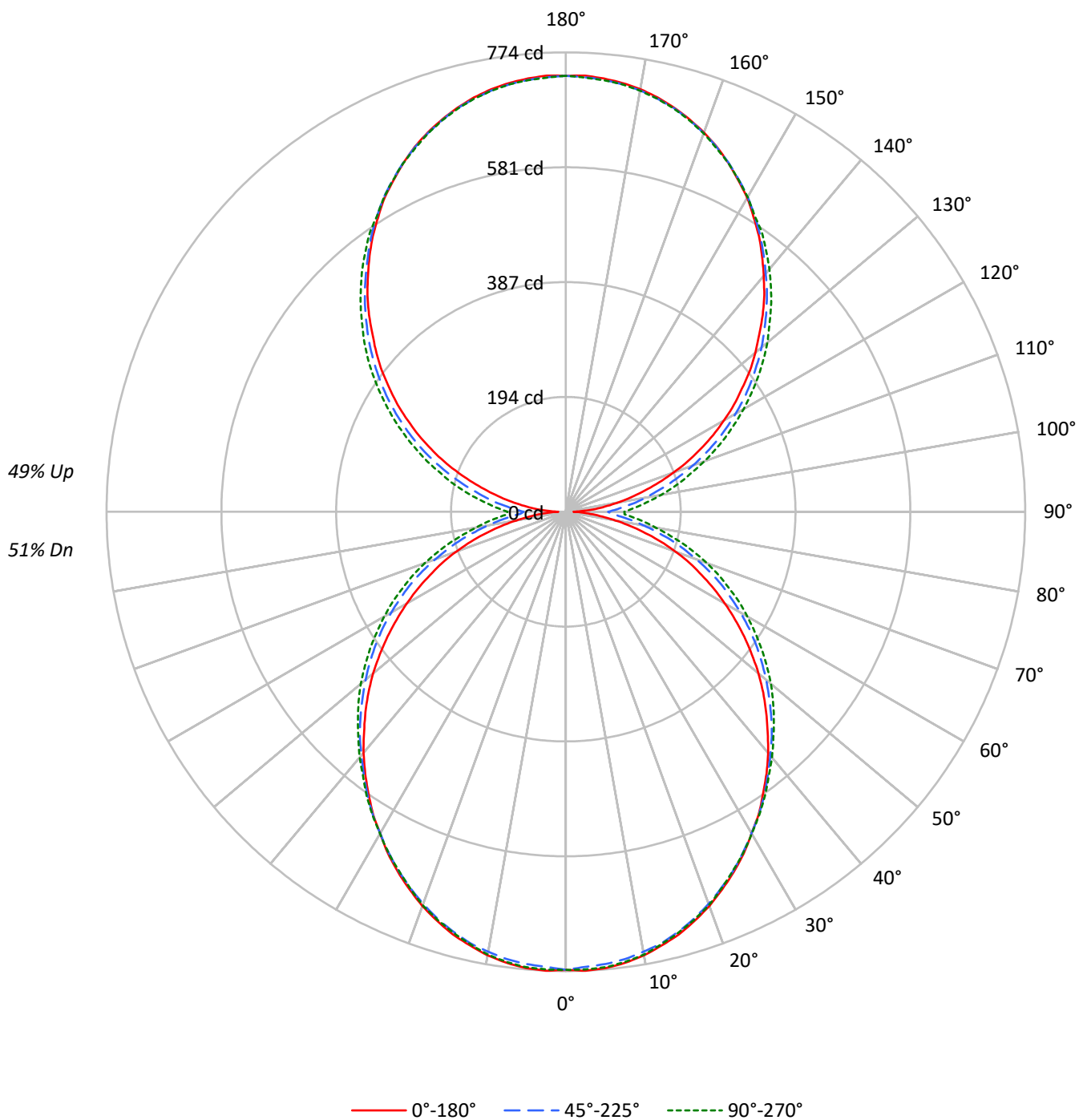
Lumens per Lamp: N/A
Luminaire Lumens: 4441.9 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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: P1028118

CATALOG NUMBER: S125DIP-B610D610UB30-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1028118

CATALOG NUMBER: S125DIP-B610D610UB30-4F0-XX-W2A-D1

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
RCR																	
0	107	107	107	107	99	99	99	99	84	84	84		70	70	70		57
1	97	93	88	85	89	85	82	79	72	70	67		60	58	56		49
2	88	80	74	68	81	74	69	64	63	59	55		52	49	47		43
3	80	70	63	57	74	65	58	53	55	50	46		46	42	39		37
4	73	62	54	48	67	58	50	45	49	43	39		41	37	33		33
5	67	55	47	41	62	51	44	38	44	38	33		37	32	29		30
6	62	49	41	35	57	46	39	33	39	33	29		33	28	25		27
7	57	45	36	31	53	41	34	29	36	30	26		30	25	22		25
8	53	40	33	27	49	38	31	26	32	27	23		27	23	20		23
9	49	37	29	24	45	34	28	23	30	24	20		25	21	18		21
10	46	34	27	22	42	32	25	20	27	22	18		23	19	16		19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4945	4945	4945
5°	4953	4841	4853
10°	4916	4743	4730
15°	4856	4628	4577
20°	4776	4489	4425
25°	4680	4342	4242
30°	4564	4181	4075
35°	4455	4032	3921
40°	4345	3876	3767
45°	4221	3740	3627
50°	4102	3593	3502
55°	3958	3453	3356
60°	3801	3293	3206
65°	3636	3124	3038
70°	3448	2898	2862
75°	3152	2675	2648
80°	2763	2404	2411
85°	2378	2189	2288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4221 cd/sqm

TEST NUMBER: P1028118

CATALOG NUMBER: S125DIP-B610D610UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.0	1.6
10°-20°	207.3	4.7
20°-30°	308.3	6.9
30°-40°	365.1	8.2
40°-50°	377.5	8.5
50°-60°	347.7	7.8
60°-70°	281.1	6.3
70°-80°	188.1	4.2
80°-90°	98.4	2.2
90°-100°	103.6	2.3
100°-110°	185.5	4.2
110°-120°	273.1	6.1
120°-130°	339.2	7.6
130°-140°	369.7	8.3
140°-150°	357.1	8.0
150°-160°	298.9	6.7
160°-170°	198.7	4.5
170°-180°	69.5	1.6
0°-30°	588.7	13.3
0°-40°	953.8	21.5
0°-60°	1679.1	37.8
0°-90°	2246.6	50.6
90°-120°	562.1	12.7
90°-150°	1628.2	36.7
90°-180°	2195.0	49.4
0°-180°	4441.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	772	770	765	771	770	73
15°	737	738	732	737	734	208
25°	670	672	667	670	667	308
35°	580	585	583	585	585	363
45°	478	486	490	495	496	368
55°	367	379	391	400	403	328
65°	253	270	288	300	303	251
75°	139	159	183	198	202	148
85°	42	67	93	110	116	43
90°	13	41	71	92	98	11
95°	47	68	99	120	126	47
105°	137	152	178	197	204	146
115°	251	258	279	292	296	248
125°	362	365	381	392	395	325
135°	469	472	478	487	489	362
145°	567	569	570	574	576	354
155°	648	648	649	651	648	299
165°	705	704	704	706	703	199
175°	733	730	730	734	730	70
180°	734	734	734	734	734	

TEST NUMBER: P1028118

CATALOG NUMBER: S125DIP-B610D610UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	771.8	771.8	771.8	771.8	771.8
2.5°	774.1	772.6	767.3	772.6	771.8
5°	771.8	770.3	765.0	771.1	770.3
7.5°	766.5	765.8	760.5	765.8	765.0
10°	759.0	759.0	752.9	758.2	757.5
12.5°	748.4	749.1	744.6	748.4	746.1
15°	737.0	737.8	732.5	737.0	734.0
17.5°	722.6	724.2	718.9	722.6	720.4
20°	706.8	708.3	703.0	705.2	705.2
22.5°	688.6	691.6	685.6	688.6	686.3
25°	669.7	671.9	667.4	670.4	666.7
27.5°	649.2	652.3	647.0	649.2	647.7
30°	625.8	630.3	625.8	627.3	626.5
32.5°	604.6	608.4	605.4	606.9	606.1
35°	579.6	584.9	582.7	584.9	584.9
37.5°	555.4	560.0	559.2	562.2	561.5
40°	530.4	536.5	535.7	538.8	540.3
42.5°	503.2	511.5	513.8	517.6	517.6
45°	477.5	485.8	489.6	494.9	495.6
47.5°	451.0	458.6	464.6	472.2	473.7
50°	423.8	432.1	440.4	448.7	451.0
52.5°	395.0	405.6	416.2	425.3	426.8
55°	367.0	379.1	391.2	399.5	402.6
57.5°	338.2	352.6	366.2	375.3	377.6
60°	309.5	324.6	339.8	351.1	353.4
62.5°	281.5	296.6	313.3	326.1	329.2
65°	252.7	270.1	288.3	299.7	302.7
67.5°	226.3	242.9	261.1	274.7	278.5
70°	196.7	214.1	233.8	248.2	252.7
72.5°	168.0	186.1	208.1	224.0	227.0
75°	139.2	158.9	183.1	198.3	202.0
77.5°	111.2	133.9	156.6	173.3	176.3
80°	85.5	108.2	133.9	150.6	153.6
82.5°	62.0	86.3	112.7	128.6	134.7
85°	41.6	66.6	93.1	109.7	115.8
87.5°	26.5	50.7	76.4	93.8	99.1
90°	12.7	41.4	71.1	91.5	98.5
92.5°	27.7	52.5	84.1	104.9	111.3
95°	47.0	67.8	99.2	119.9	126.4
97.5°	66.3	84.9	117.9	137.3	143.1
100°	88.3	104.2	135.9	156.9	162.6
102.5°	112.2	129.4	155.7	176.5	182.8
105°	137.1	152.1	178.2	196.8	203.8
107.5°	164.4	177.8	202.6	219.5	224.1
110°	192.8	204.7	227.6	243.7	248.4



TEST NUMBER: P1028118

CATALOG NUMBER: S125DIP-B610D610UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.5	230.4	253.1	267.4	271.6
115°	250.8	258.4	279.3	292.3	296.3
117.5°	279.9	284.2	304.3	317.7	320.7
120°	307.3	312.5	330.4	343.2	345.5
122.5°	336.2	337.6	355.9	367.4	370.3
125°	362.5	365.3	380.9	391.9	395.1
127.5°	391.0	391.9	405.4	416.1	419.5
130°	416.7	418.7	430.5	440.5	443.2
132.5°	441.6	446.8	453.8	463.8	465.1
135°	469.0	471.8	477.6	487.4	489.0
137.5°	494.8	497.5	501.6	511.3	511.5
140°	518.6	521.5	523.9	533.4	533.6
142.5°	543.2	544.7	547.0	554.4	554.5
145°	567.2	568.7	570.4	574.2	575.5
147.5°	588.7	590.4	591.6	594.8	591.7
150°	611.0	610.4	612.7	612.7	612.4
152.5°	629.3	630.4	631.0	632.7	630.4
155°	648.2	648.2	648.7	651.0	648.2
157.5°	665.3	664.2	664.7	667.0	663.0
160°	680.2	678.5	679.0	681.3	678.5
162.5°	693.3	692.2	692.2	695.0	691.6
165°	704.8	703.6	704.2	706.5	703.0
167.5°	715.0	712.8	712.8	716.2	712.8
170°	723.0	720.8	720.8	724.2	720.2
172.5°	728.8	726.5	726.5	729.9	726.5
175°	732.8	730.5	730.5	733.9	729.9
177.5°	735.6	733.3	732.8	736.2	732.2
180°	734.5	734.5	734.5	734.5	734.5

(END OF REPORT)