

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: P1028172

Luminaire Tested: S125DIP-B610D850UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028172
REPORT IS A COMBINATION OF REPORTS P1002396 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D850UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

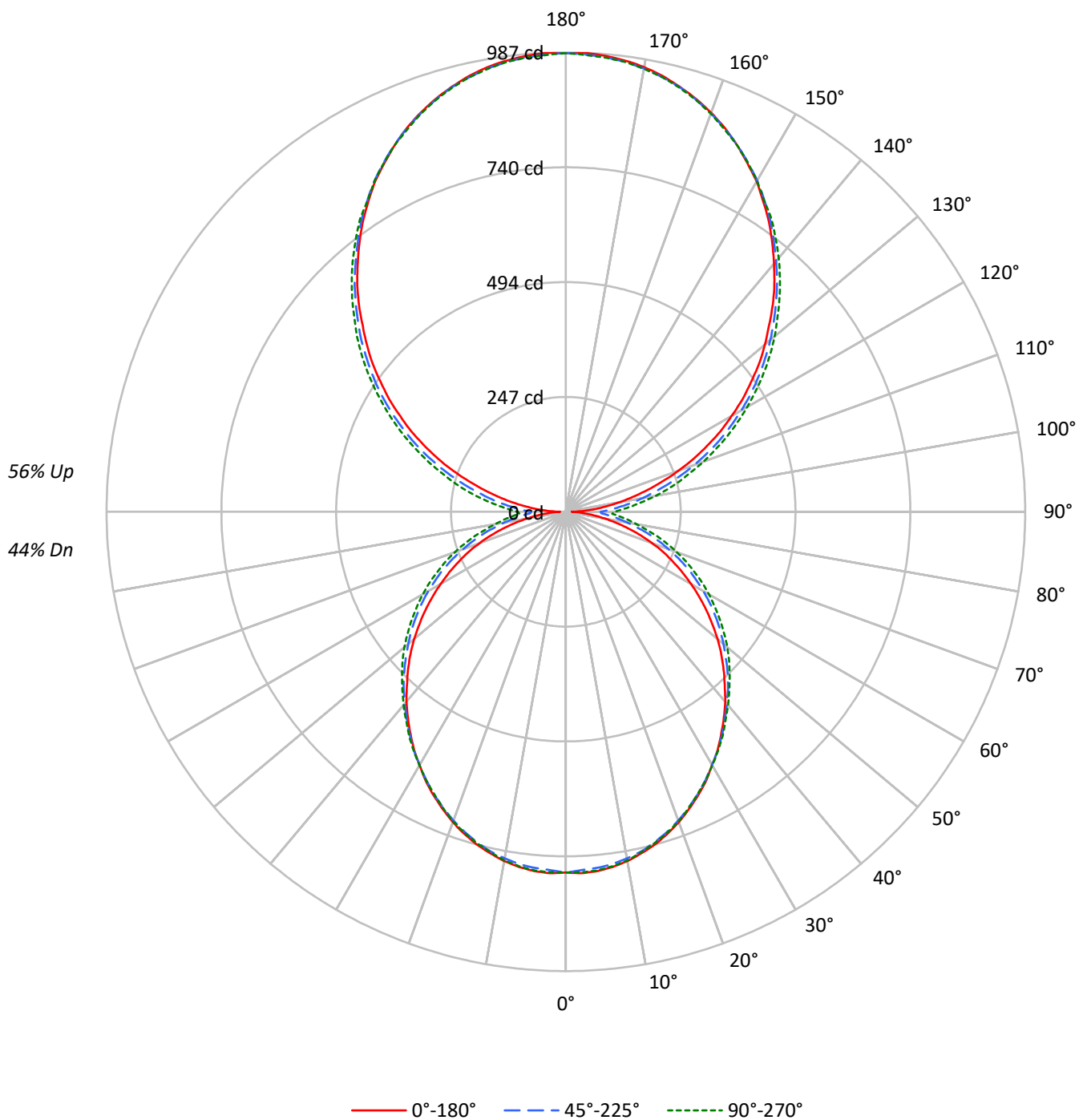
Lumens per Lamp: N/A
Luminaire Lumens: 5153.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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: P1028172

CATALOG NUMBER: S125DIP-B610D850UB35-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1028172

CATALOG NUMBER: S125DIP-B610D850UB35-4F0-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	106	106	106	106	97	97	97	97	80	80	80			65	65	65		50
1	96	91	87	83	87	83	80	77	69	66	64			56	54	52		44
2	87	79	73	68	79	73	67	62	60	56	53			49	46	43		38
3	79	69	62	56	72	64	57	52	53	48	44			43	39	36		33
4	72	61	53	47	66	56	49	44	47	41	37			38	34	31		30
5	66	54	46	40	60	50	43	37	42	36	32			34	30	27		27
6	61	49	41	35	55	45	38	32	37	32	28			31	26	23		24
7	56	44	36	30	51	40	33	28	34	28	24			28	24	20		22
8	52	40	32	27	48	37	30	25	31	25	22			25	21	18		20
9	49	36	29	24	44	33	27	22	28	23	19			23	19	16		19
10	45	33	26	21	41	31	24	20	26	21	17			21	17	15		17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4974	4862	4873
10°	4936	4763	4749
15°	4876	4647	4596
20°	4795	4508	4444
25°	4699	4360	4259
30°	4583	4198	4092
35°	4475	4049	3938
40°	4364	3892	3782
45°	4239	3756	3642
50°	4119	3608	3517
55°	3974	3467	3369
60°	3817	3307	3220
65°	3652	3137	3050
70°	3464	2911	2874
75°	3165	2687	2660
80°	2776	2415	2422
85°	2390	2199	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4239 cd/sqm

TEST NUMBER: P1028172

CATALOG NUMBER: S125DIP-B610D850UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.4
10°-20°	208.2	4.0
20°-30°	309.6	6.0
30°-40°	366.7	7.1
40°-50°	379.1	7.4
50°-60°	349.2	6.8
60°-70°	282.3	5.5
70°-80°	188.9	3.7
80°-90°	99.2	1.9
90°-100°	120.5	2.3
100°-110°	235.2	4.6
110°-120°	357.3	6.9
120°-130°	450.0	8.7
130°-140°	493.8	9.6
140°-150°	478.8	9.3
150°-160°	401.0	7.8
160°-170°	266.6	5.2
170°-180°	93.3	1.8
0°-30°	591.2	11.5
0°-40°	957.8	18.6
0°-60°	1686.1	32.7
0°-90°	2256.5	43.8
90°-120°	713.1	13.8
90°-150°	2135.7	41.4
90°-180°	2897.0	56.2
0°-180°	5153.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	774	74
15°	740	741	736	740	737	209
25°	672	675	670	673	669	310
35°	582	587	585	587	587	364
45°	480	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	301	304	252
75°	140	160	184	199	203	148
85°	42	67	94	110	116	44
90°	13	43	75	96	104	12
95°	60	81	115	137	144	60
105°	182	198	225	245	252	194
115°	335	344	365	378	382	332
125°	485	489	505	516	519	435
135°	629	633	639	649	649	485
145°	761	763	765	769	770	475
155°	870	870	870	874	870	401
165°	946	944	945	948	943	267
175°	983	980	980	985	979	93
180°	986	986	986	986	986	

TEST NUMBER: P1028172

CATALOG NUMBER: S125DIP-B610D850UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	777.3	775.8	770.5	775.8	775.1
5°	775.1	773.5	768.2	774.3	773.5
7.5°	769.7	769.0	763.7	769.0	768.2
10°	762.1	762.1	756.1	761.4	760.6
12.5°	751.5	752.3	747.7	751.5	749.2
15°	740.1	740.9	735.5	740.1	737.1
17.5°	725.7	727.2	721.9	725.7	723.4
20°	709.7	711.2	705.9	708.2	708.2
22.5°	691.5	694.5	688.4	691.5	689.2
25°	672.5	674.8	670.2	673.2	669.4
27.5°	652.0	655.0	649.7	652.0	650.4
30°	628.4	633.0	628.4	629.9	629.2
32.5°	607.1	610.9	607.9	609.4	608.6
35°	582.1	587.4	585.1	587.4	587.4
37.5°	557.7	562.3	561.5	564.6	563.8
40°	532.7	538.7	538.0	541.0	542.5
42.5°	505.3	513.7	515.9	519.7	519.7
45°	479.5	487.8	491.6	497.0	497.7
47.5°	452.9	460.5	466.6	474.2	475.7
50°	425.5	433.9	442.2	450.6	452.9
52.5°	396.6	407.3	417.9	427.0	428.6
55°	368.5	380.7	392.8	401.2	404.2
57.5°	339.7	354.1	367.8	376.9	379.2
60°	310.8	326.0	341.2	352.6	354.9
62.5°	282.7	297.9	314.6	327.5	330.5
65°	253.8	271.3	289.5	300.9	303.9
67.5°	227.2	243.9	262.2	275.8	279.6
70°	197.6	215.0	234.8	249.2	253.8
72.5°	168.7	186.9	209.0	224.9	228.0
75°	139.8	159.6	183.9	199.1	202.9
77.5°	111.7	134.5	157.3	174.0	177.0
80°	85.9	108.7	134.5	151.2	154.3
82.5°	62.3	86.6	113.2	129.2	135.3
85°	41.8	66.9	93.5	110.2	116.3
87.5°	26.6	50.9	76.7	94.2	99.5
90°	13.0	43.4	74.6	95.9	103.5
92.5°	33.6	59.5	93.0	115.1	121.9
95°	59.8	81.0	114.6	136.6	143.5
97.5°	85.8	104.9	140.6	161.2	167.3
100°	115.8	131.7	165.9	188.8	194.9
102.5°	147.9	166.2	193.6	216.5	223.3
105°	181.7	197.7	225.1	244.9	252.5
107.5°	218.5	233.0	258.9	276.4	280.9
110°	256.9	269.8	293.4	310.2	314.7

TEST NUMBER: P1028172

CATALOG NUMBER: S125DIP-B610D850UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.7	305.2	328.7	343.2	347.0
115°	335.1	343.5	364.7	377.7	381.5
117.5°	374.2	378.8	399.3	413.0	415.2
120°	411.0	417.2	435.4	448.3	449.8
122.5°	450.1	451.7	470.7	482.1	484.3
125°	485.4	489.3	505.3	515.8	518.9
127.5°	523.8	525.3	539.0	549.6	552.7
130°	558.3	561.4	573.6	583.4	585.7
132.5°	592.0	598.9	605.8	615.7	616.4
135°	628.8	632.8	638.8	648.7	649.4
137.5°	663.4	667.3	671.8	681.7	680.9
140°	695.6	699.5	702.5	712.4	711.6
142.5°	728.6	730.9	734.0	741.5	740.8
145°	760.8	763.1	765.4	769.2	769.9
147.5°	789.9	792.2	793.8	797.6	792.9
150°	819.8	819.1	822.1	822.1	821.4
152.5°	844.4	845.9	846.7	849.0	845.9
155°	869.7	869.7	870.5	873.5	869.7
157.5°	892.7	891.2	891.9	895.0	889.6
160°	912.6	910.3	911.1	914.2	910.3
162.5°	930.3	928.8	928.8	932.6	928.0
165°	945.6	944.1	944.9	947.9	943.3
167.5°	959.4	956.4	956.4	961.0	956.4
170°	970.2	967.1	967.1	971.7	966.3
172.5°	977.8	974.8	974.8	979.4	974.8
175°	983.2	980.1	980.1	984.7	979.4
177.5°	987.0	984.0	983.2	987.8	982.4
180°	985.5	985.5	985.5	985.5	985.5

(END OF REPORT)