

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: P1028171

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028171
REPORT IS A COMBINATION OF REPORTS P1002395 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-D
Description: Define 5 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

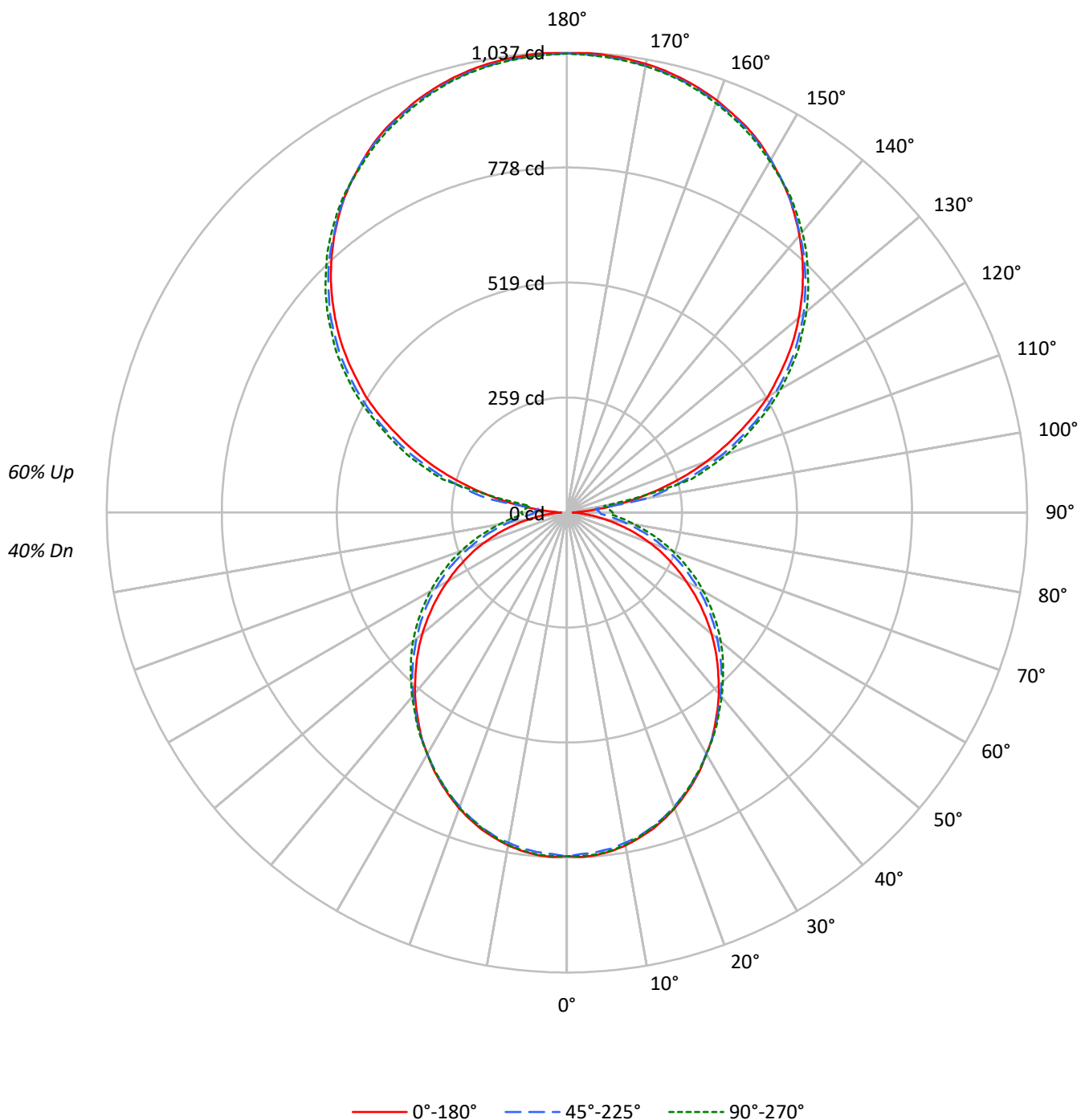
Lumens per Lamp: N/A
Luminaire Lumens: 5581.0 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

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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					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	95	95	95	95	78	78	78	62	62	62	47	47	47	47	47	40
1	95	91	86	83	86	82	79	76	67	65	63	54	52	50	41	40	39	39	39	33
2	86	79	72	67	78	72	66	62	59	55	51	47	44	42	36	34	32	32	32	27
3	79	69	61	56	71	63	56	51	52	47	43	41	38	35	31	29	27	27	27	23
4	72	61	53	47	65	56	49	43	46	40	36	36	33	30	28	25	23	23	23	19
5	66	54	46	40	59	49	42	37	41	35	31	33	29	26	25	22	20	20	20	17
6	60	48	40	34	55	44	37	32	37	31	27	29	25	22	23	20	18	18	18	14
7	56	44	36	30	51	40	33	28	33	28	24	27	23	20	21	18	16	16	16	13
8	52	39	32	26	47	36	29	25	30	25	21	24	20	17	19	16	14	14	14	11
9	48	36	28	23	44	33	26	22	28	22	19	22	18	16	17	15	13	13	13	10
10	45	33	26	21	41	30	24	20	25	20	17	21	17	14	16	13	11	11	11	9

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.3
10°-20°	208.2	3.7
20°-30°	309.6	5.5
30°-40°	366.7	6.6
40°-50°	379.1	6.8
50°-60°	349.2	6.3
60°-70°	282.3	5.1
70°-80°	188.9	3.4
80°-90°	99.2	1.8
90°-100°	90.1	1.6
100°-110°	274.1	4.9
110°-120°	447.7	8.0
120°-130°	555.1	9.9
130°-140°	587.3	10.5
140°-150°	546.2	9.8
150°-160°	440.7	7.9
160°-170°	285.0	5.1
170°-180°	98.3	1.8
0°-30°	591.2	10.6
0°-40°	957.8	17.2
0°-60°	1686.1	30.2
0°-90°	2256.5	40.4
90°-120°	811.9	14.5
90°-150°	2500.5	44.8
90°-180°	3325.0	59.6
0°-180°	5581.0	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	11
95°	54	71	68	88	94	61
105°	232	248	270	286	290	246
115°	428	437	458	468	468	424
125°	605	610	625	634	636	540
135°	752	756	760	768	768	580
145°	871	872	872	877	875	545
155°	959	954	956	958	952	442
165°	1012	1007	1008	1012	1006	286
175°	1035	1030	1031	1037	1030	99
180°	1035	1035	1035	1035	1035	

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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°	25.2	40.4	71.6	92.1	98.2
95°	53.6	71.0	67.8	88.3	93.6
97.5°	91.2	114.1	66.2	83.7	89.8
100°	136.5	154.7	182.1	83.8	85.2
102.5°	182.5	200.0	225.1	241.8	181.9
105°	232.3	247.6	270.4	285.6	290.1
107.5°	283.8	294.4	318.0	334.0	335.4
110°	333.6	342.7	365.5	377.7	383.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	381.1	390.3	411.6	422.2	426.0
115°	428.0	437.1	457.6	468.2	468.2
117.5°	477.1	480.9	502.9	511.2	515.0
120°	523.1	524.6	544.4	555.8	556.4
122.5°	562.9	567.6	585.0	595.7	595.6
125°	605.1	609.8	625.0	634.0	635.5
127.5°	645.1	648.1	660.2	670.1	668.6
130°	681.9	684.9	696.4	704.7	704.7
132.5°	717.9	722.5	727.8	738.5	737.7
135°	752.4	756.3	760.1	768.5	767.7
137.5°	784.6	788.5	790.0	799.1	798.4
140°	815.4	816.9	816.9	826.8	825.2
142.5°	843.8	843.7	845.3	852.1	850.6
145°	871.4	872.1	872.1	876.7	875.1
147.5°	895.1	895.1	895.9	898.2	894.3
150°	918.1	916.6	918.1	919.7	914.3
152.5°	940.4	936.5	938.1	939.6	934.2
155°	958.8	954.2	955.7	958.0	951.9
157.5°	973.4	971.1	971.1	973.4	967.2
160°	988.7	984.1	984.9	987.9	981.8
162.5°	1001.0	996.4	997.1	1001.7	994.8
165°	1011.7	1007.1	1007.9	1012.5	1006.3
167.5°	1020.2	1015.6	1016.3	1021.7	1014.8
170°	1027.1	1021.7	1022.5	1028.6	1021.7
172.5°	1031.7	1026.3	1027.8	1033.2	1026.3
175°	1034.7	1030.1	1030.9	1037.0	1030.1
177.5°	1037.0	1032.4	1033.2	1038.6	1032.4
180°	1034.7	1034.7	1034.7	1034.7	1034.7

(END OF REPORT)