

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: P1028166

Luminaire Tested: S125DIP-B610D850UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028166
REPORT IS A COMBINATION OF REPORTS P1002390 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D850UB30-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

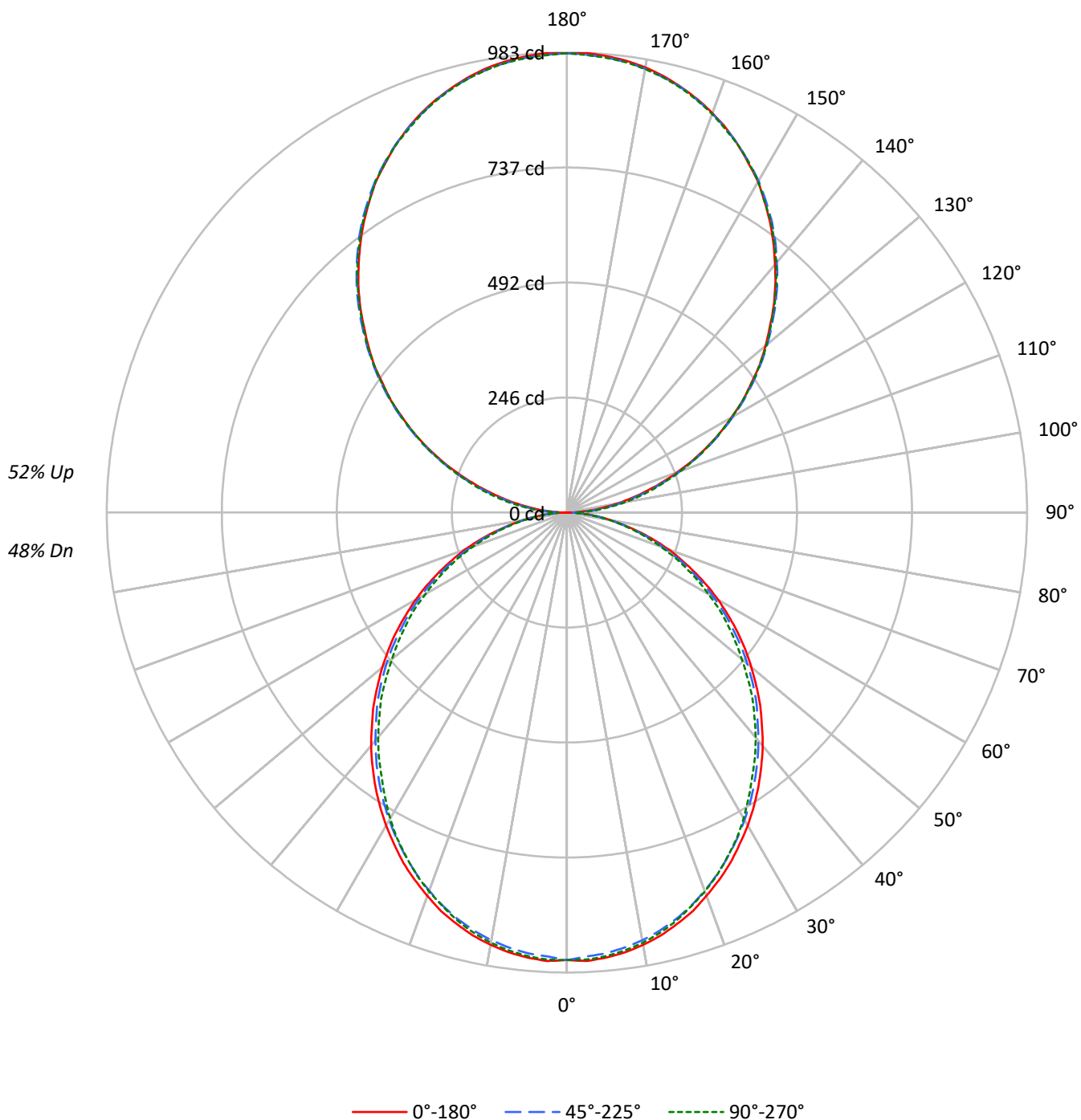
Lumens per Lamp: N/A
Luminaire Lumens: 5229.0 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	93	89	85	89	86	82	79	72	69	67	59	58	56	48	46	45
2	88	81	75	70	81	75	69	65	63	59	56	52	49	47	42	40	38
3	81	71	64	58	74	66	59	54	55	51	47	46	42	39	37	35	32
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28
5	68	56	48	42	62	52	45	39	44	38	34	37	33	29	30	27	24
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	21
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	21	19
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6127	6127	6127
5°	6127	5985	5997
10°	6076	5848	5829
15°	5997	5684	5632
20°	5889	5493	5407
25°	5773	5285	5165
30°	5634	5069	4911
35°	5484	4843	4626
40°	5330	4603	4372
45°	5163	4370	4103
50°	4980	4105	3789
55°	4798	3813	3500
60°	4581	3504	3165
65°	4322	3148	2817
70°	4058	2738	2417
75°	3614	2254	1953
80°	3080	1684	1436
85°	2378	997	792

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	1.7
10°-20°	254.9	4.9
20°-30°	376.3	7.2
30°-40°	439.0	8.4
40°-50°	440.9	8.4
50°-60°	387.1	7.4
60°-70°	288.3	5.5
70°-80°	164.6	3.1
80°-90°	49.1	0.9
90°-100°	65.2	1.2
100°-110°	193.8	3.7
110°-120°	328.7	6.3
120°-130°	432.8	8.3
130°-140°	485.0	9.3
140°-150°	475.3	9.1
150°-160°	399.3	7.6
160°-170°	265.4	5.1
170°-180°	92.9	1.8
0°-30°	721.4	13.8
0°-40°	1160.5	22.2
0°-60°	1988.5	38.0
0°-90°	2490.5	47.6
90°-120°	587.8	11.2
90°-150°	1980.9	37.9
90°-180°	2738.0	52.4
0°-180°	5229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	955	953	946	952	952	91
15°	910	908	900	903	903	257
25°	826	822	812	814	812	380
35°	713	710	700	696	690	446
45°	584	581	572	563	561	450
55°	445	443	432	425	420	397
65°	300	299	290	284	281	298
75°	160	158	154	152	149	170
85°	42	42	42	42	40	46
90°	1	7	12	16	18	6
95°	50	51	59	64	66	52
105°	174	178	182	187	189	186
115°	329	332	334	333	332	326
125°	480	485	486	484	483	430
135°	625	629	630	630	627	481
145°	757	760	762	762	760	473
155°	866	866	867	870	866	399
165°	942	940	941	944	939	266
175°	979	976	976	980	975	93
180°	981	981	981	981	981	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.3	956.3	956.3	956.3	956.3
2.5°	959.3	957.1	949.5	957.1	956.3
5°	954.8	953.3	945.7	952.5	951.8
7.5°	948.0	946.5	938.1	944.9	944.2
10°	938.1	936.6	928.3	934.4	933.6
12.5°	926.0	923.0	915.4	920.0	920.0
15°	910.1	907.9	899.6	903.3	903.3
17.5°	893.5	889.7	881.4	885.9	882.2
20°	871.6	870.0	860.2	865.5	861.7
22.5°	849.6	846.6	837.5	840.5	838.3
25°	826.2	822.4	812.5	814.1	811.8
27.5°	798.9	796.7	786.8	787.6	785.3
30°	772.5	770.2	758.8	757.3	755.0
32.5°	743.7	739.9	730.1	727.1	722.5
35°	713.4	710.4	699.8	696.0	690.0
37.5°	682.4	678.6	668.8	663.5	659.7
40°	650.6	646.9	636.3	629.5	627.2
42.5°	616.6	613.6	603.0	596.9	593.1
45°	584.1	581.0	572.0	562.9	560.6
47.5°	548.5	549.3	537.9	528.8	523.5
50°	514.5	512.2	503.1	493.3	488.0
52.5°	479.7	478.1	468.3	460.0	453.9
55°	444.9	442.6	432.0	425.2	419.9
57.5°	407.8	407.0	398.0	388.9	386.6
60°	373.0	370.0	361.6	354.1	348.8
62.5°	336.7	334.4	327.6	319.3	315.5
65°	300.4	298.8	290.5	283.7	280.7
67.5°	264.8	261.8	255.7	249.7	248.2
70°	231.5	227.7	220.9	216.4	213.4
72.5°	195.2	192.9	189.1	183.8	180.8
75°	159.6	158.1	154.3	152.1	149.0
77.5°	126.3	125.6	123.3	121.8	119.5
80°	95.3	95.3	93.8	93.1	91.5
82.5°	68.1	66.6	66.6	65.1	65.1
85°	41.6	42.4	42.4	41.6	40.1
87.5°	20.4	20.4	19.7	19.7	18.2
90°	0.8	6.9	12.2	16.0	18.3
92.5°	22.9	26.7	33.6	38.9	40.5
95°	49.6	51.2	58.8	64.1	65.7
97.5°	76.4	77.1	87.8	92.4	93.2
100°	106.9	106.9	116.8	123.7	125.2
102.5°	139.7	143.6	147.4	155.0	157.3
105°	174.1	177.9	182.5	187.1	189.4
107.5°	211.5	215.3	219.1	221.4	221.4
110°	250.5	254.3	256.6	258.9	258.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	291.7	294.7	295.5	294.0
115°	329.1	332.2	333.7	332.9	332.2
117.5°	368.8	369.6	371.1	371.9	368.8
120°	405.5	409.3	410.0	410.0	407.0
122.5°	445.2	445.9	448.2	447.5	445.2
125°	480.3	484.9	485.6	484.1	483.3
127.5°	519.2	521.5	522.3	521.5	520.0
130°	553.6	557.4	558.9	558.2	556.7
132.5°	588.0	594.8	594.1	593.3	591.0
135°	624.6	629.2	630.0	630.0	626.9
137.5°	659.0	663.6	665.1	665.8	662.0
140°	691.8	695.6	697.9	699.4	695.6
142.5°	724.6	727.7	730.8	731.5	727.7
145°	756.7	759.8	762.1	762.1	759.8
147.5°	786.5	788.8	790.3	792.6	786.5
150°	816.3	815.5	818.6	818.6	817.0
152.5°	840.7	842.2	843.0	845.3	842.2
155°	865.9	865.9	866.7	869.7	865.9
157.5°	888.8	887.3	888.1	891.1	885.8
160°	908.7	906.4	907.1	910.2	906.4
162.5°	926.2	924.7	924.7	928.5	923.9
165°	941.5	940.0	940.7	943.8	939.2
167.5°	955.2	952.2	952.2	956.8	952.2
170°	965.9	962.9	962.9	967.5	962.1
172.5°	973.6	970.5	970.5	975.1	970.5
175°	978.9	975.9	975.9	980.4	975.1
177.5°	982.7	979.7	978.9	983.5	978.2
180°	981.2	981.2	981.2	981.2	981.2

(END OF REPORT)