

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: P1026973

Luminaire Tested: S125DIP-B610D850UB2750-4F0-XX-W2A-D_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026973
REPORT IS A COMBINATION OF REPORTS P1002377 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D850UB2750-4F0-XX-W2A-D_5000K
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

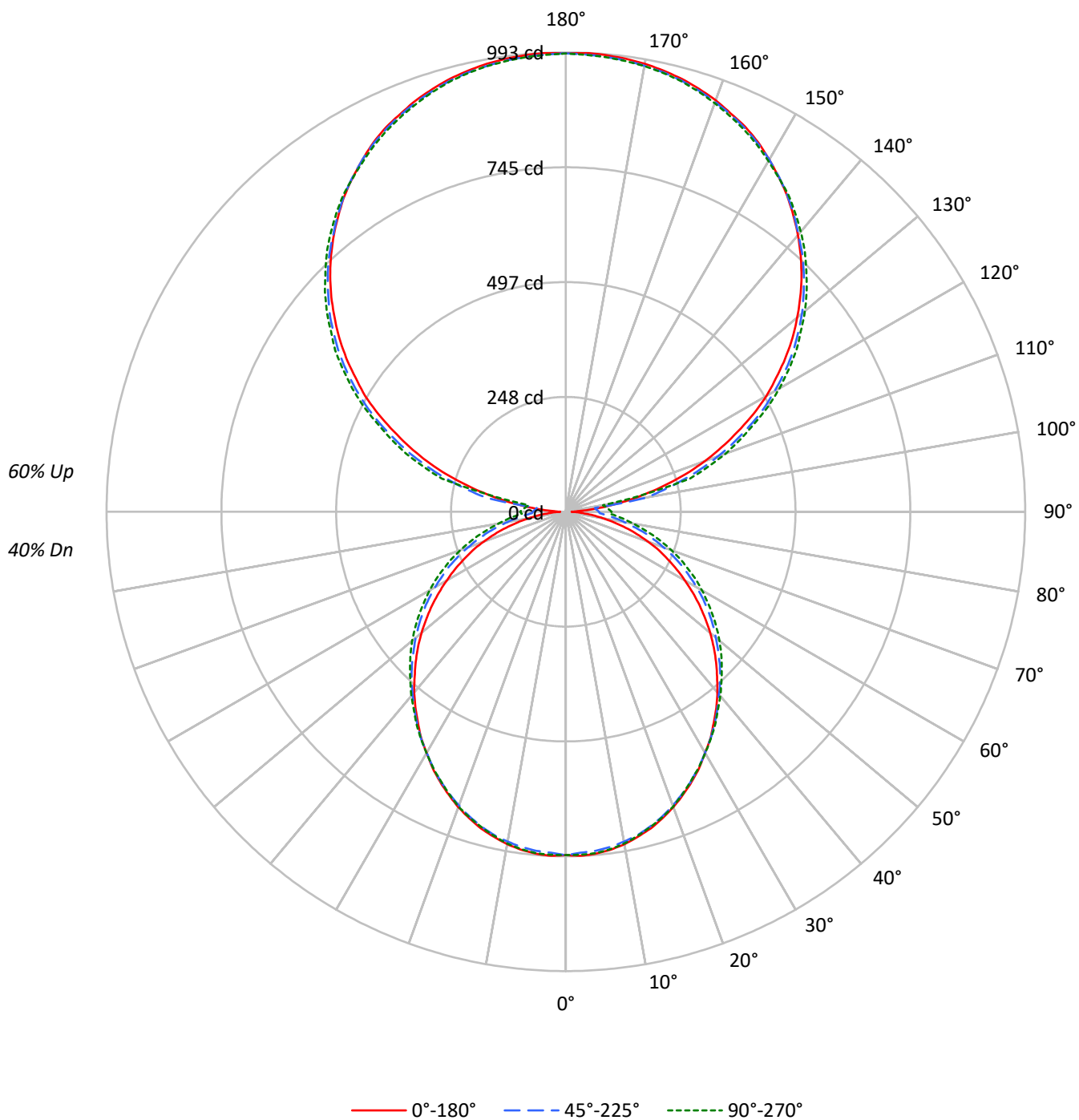
Lumens per Lamp: N/A
Luminaire Lumens: 5344.0 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4755	4755	4755
5°	4762	4655	4667
10°	4727	4560	4547
15°	4670	4450	4401
20°	4592	4316	4255
25°	4500	4174	4079
30°	4388	4020	3918
35°	4284	3877	3770
40°	4178	3727	3622
45°	4058	3596	3488
50°	3943	3455	3367
55°	3806	3320	3227
60°	3655	3166	3083
65°	3497	3004	2920
70°	3316	2787	2752
75°	3032	2573	2547
80°	2656	2312	2319
85°	2287	2104	2199

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.3
10°-20°	199.4	3.7
20°-30°	296.5	5.5
30°-40°	351.1	6.6
40°-50°	363.0	6.8
50°-60°	334.4	6.3
60°-70°	270.3	5.1
70°-80°	180.9	3.4
80°-90°	94.9	1.8
90°-100°	86.3	1.6
100°-110°	262.4	4.9
110°-120°	428.7	8.0
120°-130°	531.6	9.9
130°-140°	562.3	10.5
140°-150°	523.0	9.8
150°-160°	422.0	7.9
160°-170°	272.9	5.1
170°-180°	94.1	1.8
0°-30°	566.0	10.6
0°-40°	917.1	17.2
0°-60°	1614.5	30.2
0°-90°	2160.6	40.4
90°-120°	777.4	14.5
90°-150°	2394.3	44.8
90°-180°	3183.0	59.6
0°-180°	5344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	742	742	742	742	742	
5°	742	741	736	741	741	70
15°	709	709	704	709	706	200
25°	644	646	642	645	641	296
35°	557	562	560	562	562	349
45°	459	467	471	476	477	354
55°	353	364	376	384	387	315
65°	243	260	277	288	291	241
75°	134	153	176	191	194	142
85°	40	64	90	106	111	42
90°	12	42	72	92	99	10
95°	51	68	65	84	90	59
105°	222	237	259	274	278	236
115°	410	419	438	448	448	406
125°	580	584	598	607	609	517
135°	720	724	728	736	735	556
145°	834	835	835	839	838	522
155°	918	914	915	917	912	423
165°	969	964	965	970	964	274
175°	991	986	987	993	986	94
180°	991	991	991	991	991	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	742.1	742.1	742.1	742.1	742.1
2.5°	744.3	742.9	737.8	742.9	742.1
5°	742.1	740.7	735.6	741.4	740.7
7.5°	737.0	736.3	731.2	736.3	735.6
10°	729.8	729.8	723.9	729.0	728.3
12.5°	719.6	720.3	715.9	719.6	717.4
15°	708.7	709.4	704.3	708.7	705.8
17.5°	694.8	696.3	691.2	694.8	692.7
20°	679.6	681.0	675.9	678.1	678.1
22.5°	662.1	665.0	659.2	662.1	659.9
25°	643.9	646.1	641.7	644.6	641.0
27.5°	624.3	627.2	622.1	624.3	622.8
30°	601.7	606.1	601.7	603.2	602.4
32.5°	581.3	585.0	582.1	583.5	582.8
35°	557.3	562.4	560.2	562.4	562.4
37.5°	534.0	538.4	537.7	540.6	539.9
40°	510.0	515.9	515.1	518.0	519.5
42.5°	483.8	491.8	494.0	497.7	497.7
45°	459.1	467.1	470.7	475.8	476.6
47.5°	433.6	440.9	446.7	454.0	455.5
50°	407.4	415.4	423.5	431.5	433.6
52.5°	379.8	390.0	400.2	408.9	410.4
55°	352.9	364.5	376.2	384.2	387.1
57.5°	325.2	339.1	352.1	360.9	363.1
60°	297.6	312.1	326.7	337.6	339.8
62.5°	270.7	285.2	301.2	313.6	316.5
65°	243.0	259.7	277.2	288.1	291.0
67.5°	217.5	233.6	251.0	264.1	267.8
70°	189.2	205.9	224.8	238.6	243.0
72.5°	161.5	179.0	200.1	215.4	218.3
75°	133.9	152.8	176.1	190.6	194.3
77.5°	107.0	128.8	150.6	166.6	169.5
80°	82.2	104.0	128.8	144.8	147.7
82.5°	59.7	82.9	108.4	123.7	129.5
85°	40.0	64.0	89.5	105.5	111.3
87.5°	25.5	48.7	73.5	90.2	95.3
90°	12.3	41.5	71.5	91.8	99.1
92.5°	24.2	38.6	68.6	88.2	94.1
95°	51.4	68.1	64.9	84.5	89.6
97.5°	87.3	109.2	63.4	80.2	86.0
100°	130.7	148.2	174.4	80.2	81.6
102.5°	174.8	191.5	215.6	231.5	174.2
105°	222.4	237.1	258.9	273.5	277.8
107.5°	271.7	281.9	304.4	319.8	321.1
110°	319.5	328.2	350.0	361.6	367.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	365.0	373.7	394.1	404.3	407.9
115°	409.8	418.6	438.2	448.4	448.3
117.5°	456.8	460.5	481.6	489.5	493.1
120°	500.8	502.3	521.3	532.1	532.9
122.5°	539.1	543.4	560.2	570.4	570.4
125°	579.5	583.9	598.4	607.2	608.6
127.5°	617.7	620.7	632.2	641.7	640.2
130°	652.9	655.9	666.7	674.7	674.8
132.5°	687.5	691.9	696.9	707.1	706.3
135°	720.5	724.2	727.8	735.8	735.0
137.5°	751.4	755.0	756.4	765.2	764.5
140°	780.7	782.2	782.2	791.7	790.2
142.5°	807.9	807.9	809.4	815.9	814.5
145°	834.3	835.1	835.1	839.4	837.9
147.5°	857.1	857.1	857.9	860.1	856.4
150°	879.2	877.7	879.2	880.6	875.5
152.5°	900.5	896.8	898.3	899.7	894.6
155°	918.1	913.7	915.2	917.4	911.5
157.5°	932.0	929.8	929.8	932.0	926.2
160°	946.7	942.3	943.1	946.0	940.1
162.5°	958.5	954.1	954.8	959.2	952.6
165°	968.8	964.4	965.1	969.5	963.6
167.5°	976.8	972.4	973.2	978.3	971.7
170°	983.5	978.3	979.0	984.9	978.3
172.5°	987.9	982.7	984.2	989.3	982.7
175°	990.8	986.4	987.1	993.0	986.4
177.5°	993.0	988.6	989.3	994.5	988.6
180°	990.8	990.8	990.8	990.8	990.8

(END OF REPORT)