

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: P1028147

Luminaire Tested: S125DIP-B610D610UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028147
REPORT IS A COMBINATION OF REPORTS P1002356 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B610D610UB50-4F0-XX-W2A-F
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

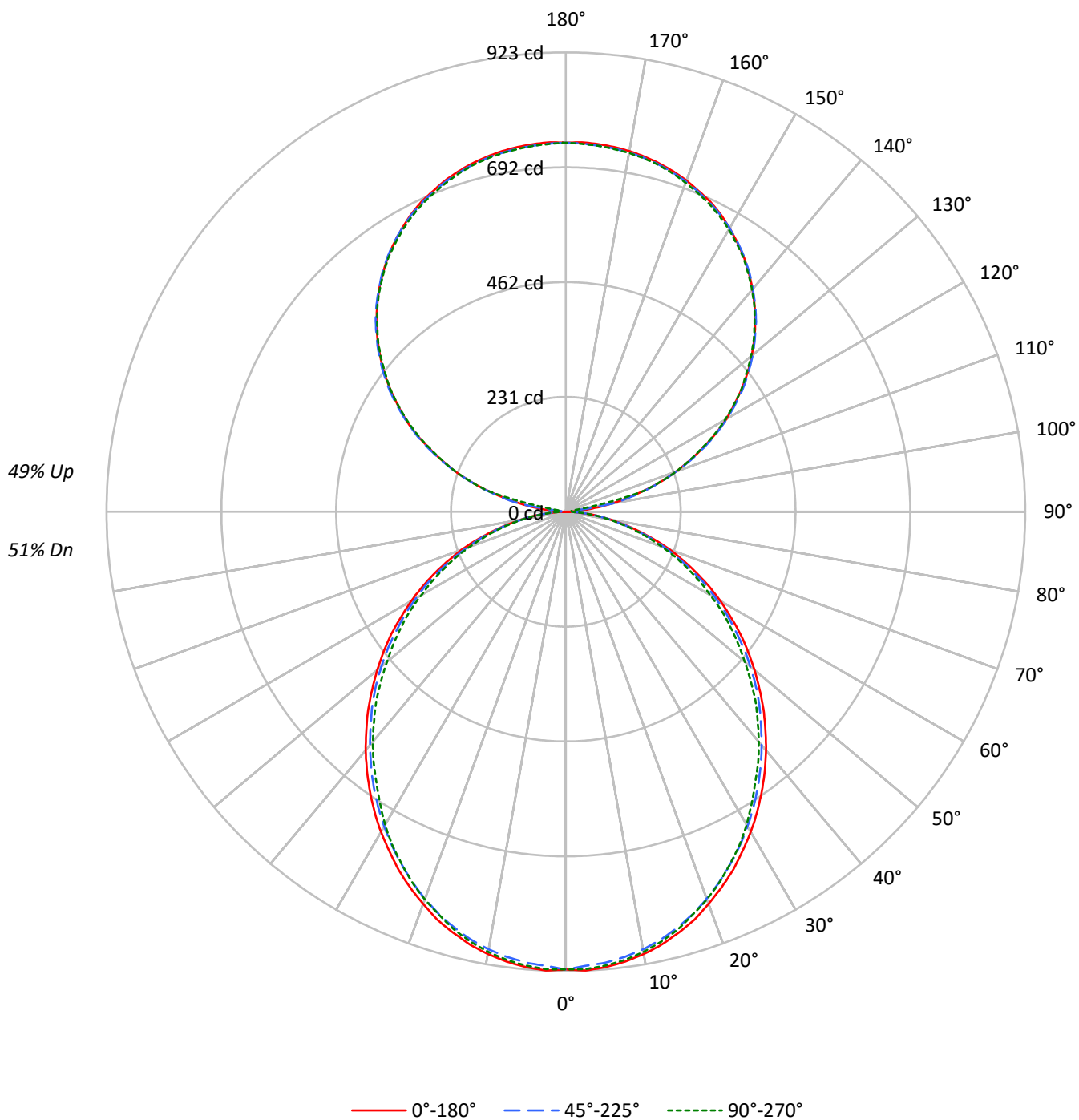
Lumens per Lamp: N/A
Luminaire Lumens: 4673.0 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

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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	99	99	99	99	84	84	84	70	70	70	57	57	57
1	98	94	90	86	90	87	83	80	74	71	69	62	60	58	51	49	48
2	89	82	76	70	82	76	70	66	64	60	57	54	51	49	44	42	41
3	81	72	64	59	75	67	60	55	57	52	48	48	44	41	39	37	35
4	74	64	56	50	68	59	52	47	50	45	41	43	38	35	35	32	30
5	68	57	48	42	63	53	45	40	45	40	35	38	34	30	32	28	26
6	63	51	43	37	58	47	40	35	41	35	31	35	30	27	29	25	23
7	58	46	38	32	54	43	36	30	37	31	27	31	27	24	26	23	20
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18
9	50	38	30	25	46	36	29	24	31	25	21	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	21	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5893	5893	5893
5°	5893	5756	5767
10°	5845	5625	5607
15°	5768	5466	5418
20°	5664	5284	5200
25°	5553	5084	4968
30°	5419	4876	4723
35°	5275	4658	4449
40°	5127	4428	4206
45°	4966	4203	3946
50°	4789	3948	3645
55°	4615	3667	3367
60°	4406	3371	3044
65°	4157	3028	2710
70°	3904	2634	2324
75°	3476	2168	1880
80°	2963	1619	1381
85°	2287	959	763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	1.9
10°-20°	245.2	5.2
20°-30°	361.9	7.7
30°-40°	422.3	9.0
40°-50°	424.1	9.1
50°-60°	372.3	8.0
60°-70°	277.3	5.9
70°-80°	158.4	3.4
80°-90°	46.8	1.0
90°-100°	25.2	0.5
100°-110°	167.3	3.6
110°-120°	301.4	6.4
120°-130°	386.9	8.3
130°-140°	416.1	8.9
140°-150°	390.5	8.4
150°-160°	315.9	6.8
160°-170°	204.3	4.4
170°-180°	70.4	1.5
0°-30°	693.9	14.8
0°-40°	1116.2	23.9
0°-60°	1912.6	40.9
0°-90°	2395.1	51.3
90°-120°	493.9	10.6
90°-150°	1687.3	36.1
90°-180°	2278.0	48.7
0°-180°	4673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	920	920	920	920	920	
5°	918	917	910	916	915	87
15°	875	873	865	869	869	247
25°	795	791	782	783	781	366
35°	686	683	673	670	664	429
45°	562	559	550	541	539	433
55°	428	426	416	409	404	382
65°	289	287	279	273	270	287
75°	154	152	148	146	143	163
85°	40	41	41	40	39	44
90°	0	5	9	12	13	4
95°	31	30	9	12	12	38
105°	162	164	164	164	163	171
115°	303	306	307	304	301	301
125°	432	435	435	433	432	385
135°	538	542	540	539	536	415
145°	624	625	625	626	622	390
155°	687	684	685	687	682	317
165°	725	722	722	726	721	205
175°	742	738	739	743	738	71
180°	742	742	742	742	742	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	919.8	919.8	919.8	919.8	919.8
2.5°	922.7	920.5	913.2	920.5	919.8
5°	918.3	916.9	909.6	916.2	915.4
7.5°	911.8	910.3	902.3	908.9	908.2
10°	902.3	900.9	892.9	898.7	898.0
12.5°	890.7	887.8	880.5	884.9	884.9
15°	875.4	873.2	865.2	868.9	868.9
17.5°	859.4	855.8	847.8	852.1	848.5
20°	838.3	836.8	827.4	832.5	828.8
22.5°	817.2	814.3	805.5	808.5	806.3
25°	794.6	791.0	781.5	783.0	780.8
27.5°	768.4	766.3	756.8	757.5	755.3
30°	743.0	740.8	729.9	728.4	726.2
32.5°	715.3	711.7	702.2	699.3	694.9
35°	686.2	683.3	673.1	669.5	663.6
37.5°	656.4	652.7	643.3	638.2	634.5
40°	625.8	622.2	612.0	605.4	603.3
42.5°	593.1	590.2	580.0	574.1	570.5
45°	561.8	558.9	550.1	541.4	539.2
47.5°	527.6	528.3	517.4	508.7	503.6
50°	494.8	492.6	483.9	474.5	469.4
52.5°	461.4	459.9	450.4	442.4	436.6
55°	427.9	425.7	415.5	409.0	403.9
57.5°	392.2	391.5	382.8	374.0	371.8
60°	358.7	355.8	347.8	340.6	335.5
62.5°	323.8	321.6	315.1	307.1	303.4
65°	288.9	287.4	279.4	272.9	270.0
67.5°	254.7	251.8	246.0	240.1	238.7
70°	222.7	219.0	212.5	208.1	205.2
72.5°	187.7	185.6	181.9	176.8	173.9
75°	153.5	152.1	148.4	146.3	143.4
77.5°	121.5	120.8	118.6	117.2	115.0
80°	91.7	91.7	90.2	89.5	88.0
82.5°	65.5	64.0	64.0	62.6	62.6
85°	40.0	40.8	40.8	40.0	38.6
87.5°	19.6	19.6	18.9	18.9	17.5
90°	0.5	4.9	8.8	11.5	13.2
92.5°	10.4	5.5	8.8	11.5	12.1
95°	31.3	29.7	8.8	11.5	11.5
97.5°	58.8	62.1	9.9	11.0	11.5
100°	91.8	93.5	95.6	13.7	11.5
102.5°	125.3	127.5	128.6	129.7	83.6
105°	161.6	163.8	163.8	163.8	163.3
107.5°	199.0	199.0	200.1	200.6	198.4
110°	235.3	235.3	236.4	234.7	235.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.4	271.0	271.6	269.4	268.3
115°	303.4	306.2	306.7	304.5	301.2
117.5°	339.2	339.2	341.4	338.1	337.0
120°	372.2	371.6	373.3	372.2	369.4
122.5°	401.3	404.0	404.6	403.5	400.2
125°	431.5	435.4	435.4	433.2	431.5
127.5°	460.7	463.4	462.9	461.8	457.4
130°	487.0	489.8	490.3	488.7	485.9
132.5°	513.4	516.7	515.1	515.1	512.3
135°	538.2	541.5	540.4	539.3	536.0
137.5°	561.3	564.5	563.4	563.4	560.7
140°	583.8	584.9	584.3	585.4	582.1
142.5°	604.1	604.7	605.8	605.8	602.5
145°	623.9	625.0	625.0	625.6	622.3
147.5°	641.5	641.5	642.1	642.6	638.8
150°	658.0	656.9	658.0	659.1	654.7
152.5°	673.9	671.2	672.3	673.4	669.5
155°	687.1	683.8	684.9	686.6	682.2
157.5°	697.6	695.9	695.9	697.6	693.2
160°	708.6	705.3	705.8	708.0	703.6
162.5°	717.4	714.1	714.6	717.9	713.0
165°	725.1	721.8	722.3	725.6	721.2
167.5°	731.1	727.8	728.4	732.2	727.3
170°	736.1	732.2	732.8	737.2	732.2
172.5°	739.4	735.5	736.6	740.5	735.5
175°	741.6	738.3	738.8	743.2	738.3
177.5°	743.2	739.9	740.5	744.3	739.9
180°	741.6	741.6	741.6	741.6	741.6

(END OF REPORT)