

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: P1028148

Luminaire Tested: S125DIP-B610D610UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028148
REPORT IS A COMBINATION OF REPORTS P1002357 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-F1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

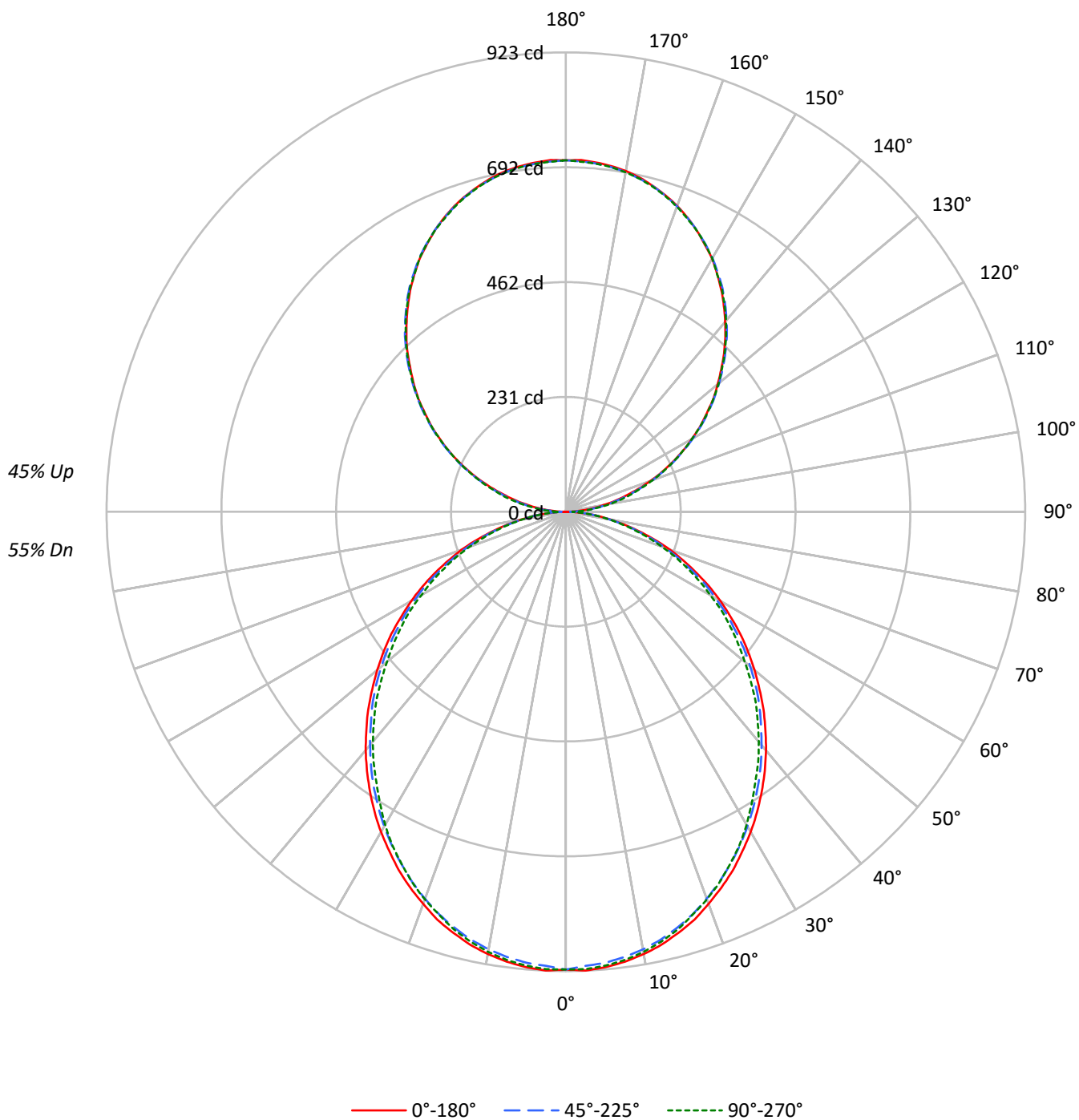
Lumens per Lamp: N/A
Luminaire Lumens: 4366.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	94	90	87	92	88	84	81	75	73	71	64	62	61	53	52	51
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	47	45	43
3	82	72	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	31
5	69	57	49	43	64	53	46	41	46	41	36	40	35	32	34	30	27
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17
10	47	35	28	23	44	33	27	22	29	24	20	25	21	18	22	18	16

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	2.0
10°-20°	245.2	5.6
20°-30°	361.9	8.3
30°-40°	422.3	9.7
40°-50°	424.1	9.7
50°-60°	372.3	8.5
60°-70°	277.3	6.4
70°-80°	158.4	3.6
80°-90°	46.8	1.1
90°-100°	47.0	1.1
100°-110°	139.5	3.2
110°-120°	236.6	5.4
120°-130°	311.5	7.1
130°-140°	349.0	8.0
140°-150°	342.1	7.8
150°-160°	287.4	6.6
160°-170°	191.0	4.4
170°-180°	66.8	1.5
0°-30°	693.9	15.9
0°-40°	1116.2	25.6
0°-60°	1912.6	43.8
0°-90°	2395.1	54.9
90°-120°	423.1	9.7
90°-150°	1425.7	32.7
90°-180°	1971.0	45.1
0°-180°	4366.0	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	5
95°	36	37	42	46	47	37
105°	125	128	131	135	136	134
115°	237	239	240	240	239	234
125°	346	349	350	348	348	310
135°	450	453	453	453	451	346
145°	545	547	548	548	547	340
155°	623	623	624	626	623	287
165°	678	676	677	679	676	191
175°	704	702	702	706	702	67
180°	706	706	706	706	706	

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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°	16.5	19.2	24.2	28.0	29.1
95°	35.7	36.8	42.3	46.2	47.3
97.5°	55.0	55.5	63.2	66.5	67.0
100°	76.9	76.9	84.1	89.0	90.1
102.5°	100.6	103.3	106.1	111.6	113.2
105°	125.3	128.0	131.3	134.6	136.3
107.5°	152.2	155.0	157.7	159.4	159.4
110°	180.3	183.0	184.7	186.3	185.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	208.8	209.9	212.1	212.7	211.6
115°	236.9	239.1	240.2	239.6	239.1
117.5°	265.4	266.0	267.1	267.6	265.4
120°	291.8	294.6	295.1	295.1	292.9
122.5°	320.4	320.9	322.6	322.0	320.4
125°	345.7	349.0	349.5	348.4	347.9
127.5°	373.7	375.3	375.9	375.3	374.2
130°	398.4	401.2	402.3	401.7	400.6
132.5°	423.2	428.1	427.6	427.0	425.4
135°	449.5	452.8	453.4	453.4	451.2
137.5°	474.3	477.6	478.7	479.2	476.5
140°	497.9	500.6	502.3	503.4	500.6
142.5°	521.5	523.7	525.9	526.5	523.7
145°	544.6	546.8	548.5	548.5	546.8
147.5°	566.0	567.7	568.8	570.4	566.0
150°	587.5	586.9	589.1	589.1	588.0
152.5°	605.1	606.2	606.7	608.4	606.2
155°	623.2	623.2	623.7	625.9	623.2
157.5°	639.7	638.6	639.1	641.3	637.5
160°	654.0	652.3	652.9	655.1	652.3
162.5°	666.6	665.5	665.5	668.3	665.0
165°	677.6	676.5	677.1	679.3	676.0
167.5°	687.5	685.3	685.3	688.6	685.3
170°	695.2	693.0	693.0	696.3	692.4
172.5°	700.7	698.5	698.5	701.8	698.5
175°	704.5	702.3	702.3	705.6	701.8
177.5°	707.3	705.1	704.5	707.8	704.0
180°	706.2	706.2	706.2	706.2	706.2

(END OF REPORT)