

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: P1035496

Luminaire Tested: S125DIW-B610D470UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035496
REPORT IS A COMBINATION OF REPORTS P1003971 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D470UB50-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

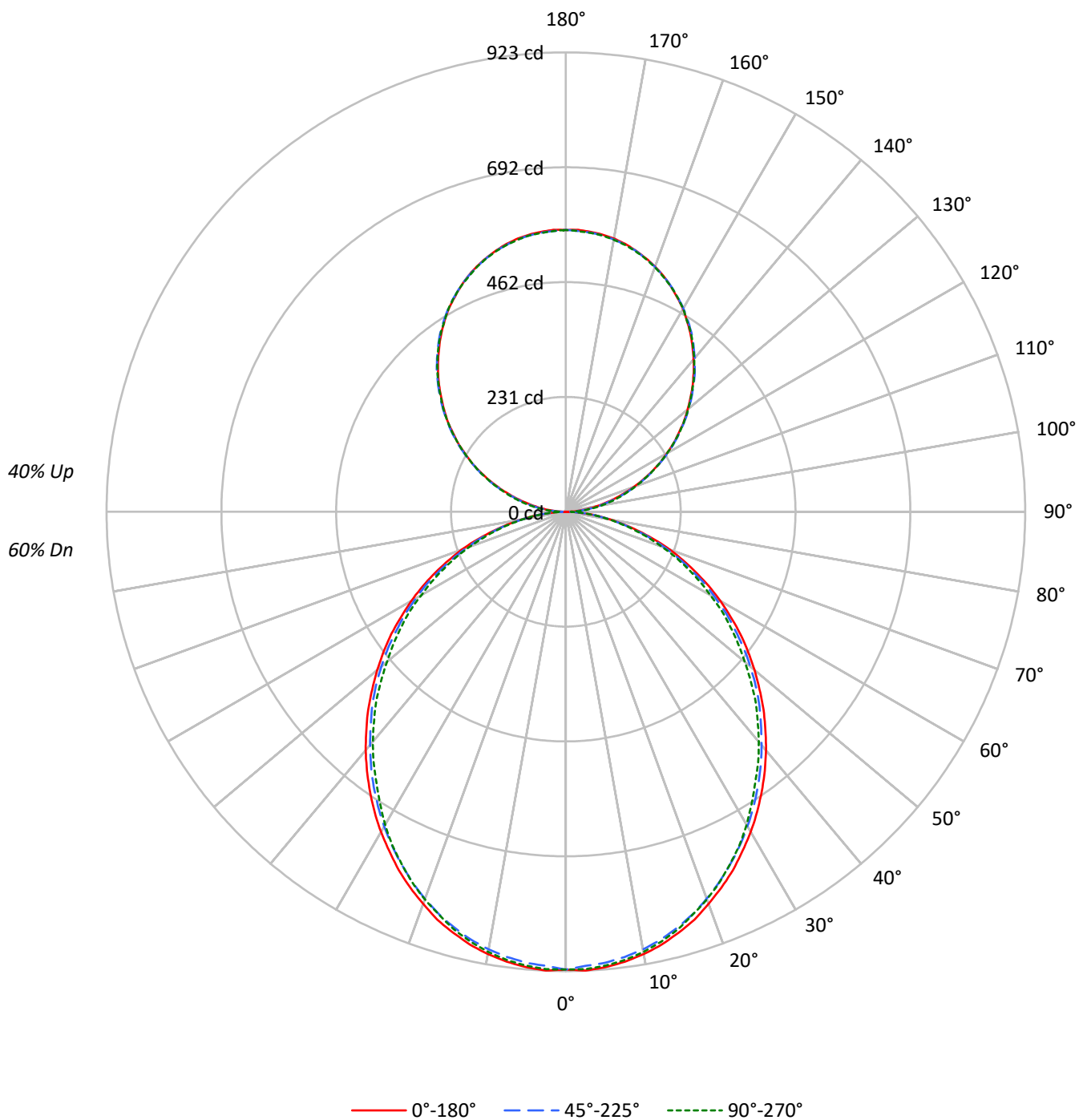
Lumens per Lamp: N/A
Luminaire Lumens: 3975.0 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 37.2
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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66
1	100	96	92	88	93	89	86	83	78	75	73	68	66	64	58	56	55
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	49	46
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	40
4	76	65	57	51	71	61	54	48	54	48	43	47	42	39	40	37	34
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	33	30
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17

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	2.2
10°-20°	245.2	6.2
20°-30°	361.9	9.1
30°-40°	422.3	10.6
40°-50°	424.1	10.7
50°-60°	372.3	9.4
60°-70°	277.3	7.0
70°-80°	158.4	4.0
80°-90°	46.6	1.2
90°-100°	37.7	0.9
100°-110°	111.8	2.8
110°-120°	189.7	4.8
120°-130°	249.7	6.3
130°-140°	279.8	7.0
140°-150°	274.3	6.9
150°-160°	230.4	5.8
160°-170°	153.1	3.9
170°-180°	53.6	1.3
0°-30°	693.9	17.5
0°-40°	1116.2	28.1
0°-60°	1912.6	48.1
0°-90°	2394.9	60.2
90°-120°	339.2	8.5
90°-150°	1143.0	28.8
90°-180°	1580.0	39.7
0°-180°	3975.0	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	4	7	9	11	5
95°	29	30	34	37	38	30
105°	100	103	105	108	109	107
115°	190	192	192	192	192	188
125°	277	280	280	279	279	248
135°	360	363	364	364	362	278
145°	437	438	440	440	438	273
155°	500	500	500	502	500	230
165°	543	542	543	545	542	153
175°	565	563	563	566	563	54
180°	566	566	566	566	566	

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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°	0.4	4.0	7.0	9.3	10.6
92.5°	13.2	15.4	19.4	22.5	23.4
95°	28.6	29.5	33.9	37.0	37.9
97.5°	44.1	44.5	50.7	53.3	53.8
100°	61.7	61.7	67.4	71.4	72.3
102.5°	80.6	82.8	85.0	89.4	90.8
105°	100.5	102.7	105.3	107.9	109.3
107.5°	122.0	124.2	126.5	127.8	127.8
110°	144.5	146.7	148.0	149.4	148.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.4	168.3	170.1	170.5	169.6
115°	189.9	191.7	192.5	192.1	191.7
117.5°	212.8	213.2	214.1	214.6	212.8
120°	234.0	236.2	236.6	236.6	234.8
122.5°	256.9	257.3	258.6	258.2	256.9
125°	277.1	279.8	280.2	279.3	278.9
127.5°	299.6	300.9	301.4	300.9	300.0
130°	319.4	321.6	322.5	322.1	321.2
132.5°	339.3	343.2	342.8	342.3	341.0
135°	360.4	363.1	363.5	363.5	361.7
137.5°	380.2	382.9	383.8	384.2	382.0
140°	399.2	401.4	402.7	403.6	401.4
142.5°	418.1	419.9	421.6	422.1	419.9
145°	436.6	438.4	439.7	439.7	438.4
147.5°	453.8	455.1	456.0	457.3	453.8
150°	471.0	470.6	472.3	472.3	471.4
152.5°	485.1	486.0	486.4	487.7	486.0
155°	499.6	499.6	500.1	501.8	499.6
157.5°	512.9	512.0	512.4	514.2	511.1
160°	524.3	523.0	523.4	525.2	523.0
162.5°	534.4	533.6	533.6	535.8	533.1
165°	543.3	542.4	542.8	544.6	541.9
167.5°	551.2	549.4	549.4	552.1	549.4
170°	557.4	555.6	555.6	558.2	555.1
172.5°	561.8	560.0	560.0	562.6	560.0
175°	564.8	563.1	563.1	565.7	562.6
177.5°	567.0	565.3	564.8	567.5	564.4
180°	566.2	566.2	566.2	566.2	566.2

(END OF REPORT)