

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: P1034592

Luminaire Tested: S125DIW-B610D470UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034592
REPORT IS A COMBINATION OF REPORTS P1003927 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D470UB2750-4F0-XX-W2A-D_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

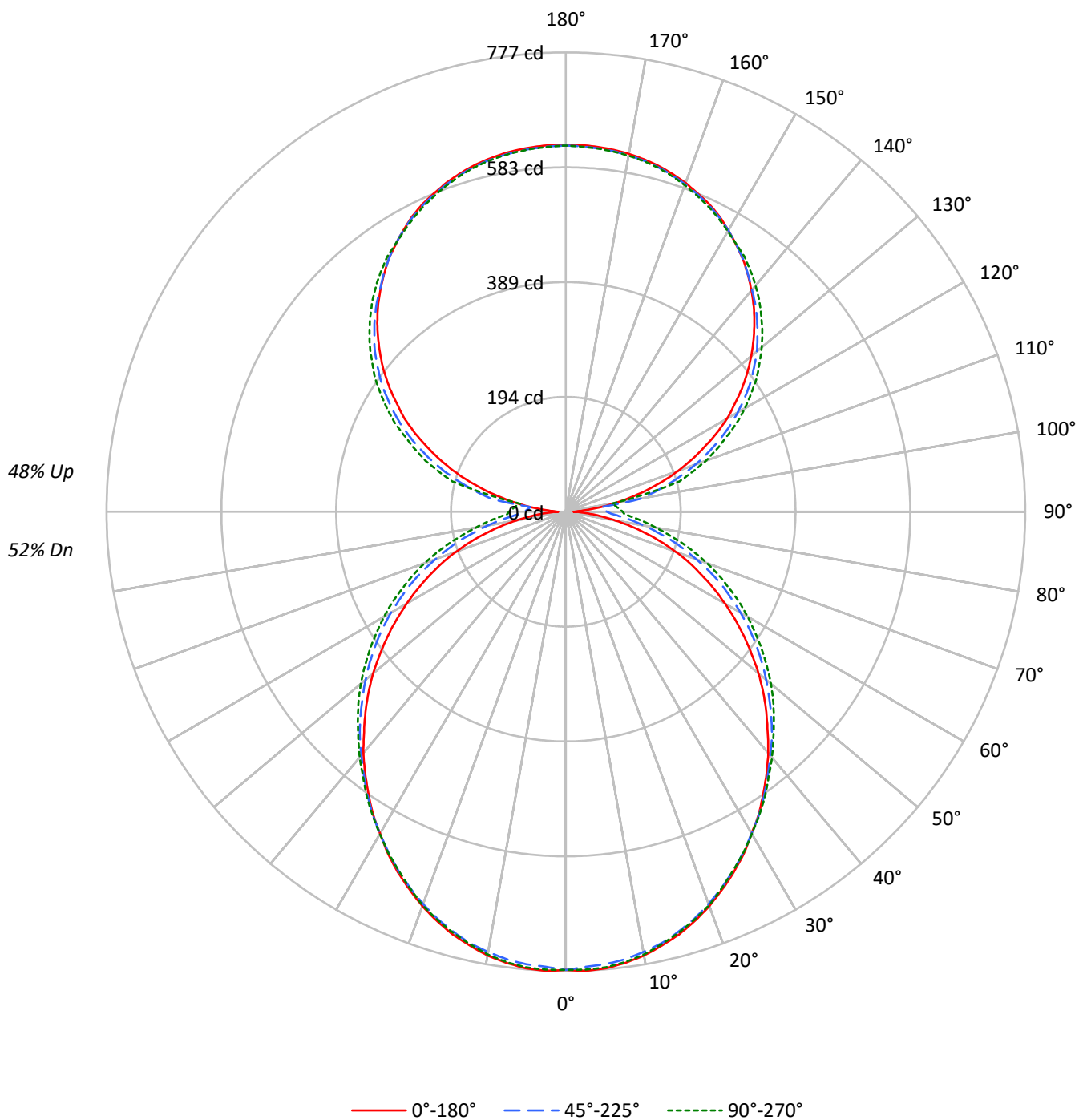
Lumens per Lamp: N/A
Luminaire Lumens: 4305.0 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85		71	71	71		58
1	98	93	89	85	90	86	82	79	73	70	68		61	59	58		50
2	89	81	74	69	82	75	69	64	64	59	56		53	50	47		44
3	81	71	63	57	74	66	59	53	56	51	46		47	43	40		39
4	74	62	54	48	68	58	51	45	49	44	39		42	37	34		34
5	67	55	47	41	62	52	44	39	44	38	34		37	33	29		31
6	62	50	41	35	57	46	39	33	40	34	29		34	29	26		28
7	57	45	37	31	53	42	34	29	36	30	26		31	26	23		25
8	53	41	33	27	49	38	31	26	33	27	23		28	23	20		23
9	50	37	29	24	46	35	28	23	30	24	20		26	21	18		22
10	46	34	27	22	43	32	25	21	28	22	18		24	19	16		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4966	4966	4966
5°	4974	4862	4873
10°	4936	4763	4749
15°	4876	4647	4596
20°	4795	4508	4444
25°	4699	4360	4259
30°	4583	4198	4092
35°	4475	4049	3938
40°	4364	3892	3782
45°	4239	3756	3642
50°	4119	3608	3517
55°	3974	3467	3369
60°	3817	3307	3220
65°	3652	3137	3050
70°	3464	2911	2874
75°	3165	2687	2660
80°	2776	2415	2422
85°	2390	2199	2297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4239 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.3	1.7
10°-20°	208.2	4.8
20°-30°	309.6	7.2
30°-40°	366.7	8.5
40°-50°	379.1	8.8
50°-60°	349.2	8.1
60°-70°	282.3	6.6
70°-80°	188.9	4.4
80°-90°	98.6	2.3
90°-100°	76.0	1.8
100°-110°	180.4	4.2
110°-120°	278.9	6.5
120°-130°	338.6	7.9
130°-140°	354.3	8.2
140°-150°	327.6	7.6
150°-160°	263.9	6.1
160°-170°	170.7	4.0
170°-180°	58.9	1.4
0°-30°	591.2	13.7
0°-40°	957.8	22.2
0°-60°	1686.1	39.2
0°-90°	2255.8	52.4
90°-120°	535.3	12.4
90°-150°	1555.8	36.1
90°-180°	2049.0	47.6
0°-180°	4305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	775	775	775	775	775	
5°	775	774	768	774	774	74
15°	740	741	736	740	737	209
25°	672	675	670	673	669	310
35°	582	587	585	587	587	364
45°	480	488	492	497	498	370
55°	368	381	393	401	404	329
65°	254	271	290	301	304	252
75°	140	160	184	199	203	148
85°	42	67	94	110	116	44
90°	13	41	70	89	96	10
95°	36	54	63	82	87	40
105°	142	156	179	194	199	150
115°	258	266	286	298	300	256
125°	364	366	381	392	394	325
135°	451	453	458	466	468	348
145°	522	522	522	526	527	326
155°	574	571	572	574	570	265
165°	606	603	604	606	602	171
175°	620	617	617	621	617	59
180°	620	620	620	620	620	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	775.1	775.1	775.1	775.1	775.1
2.5°	777.3	775.8	770.5	775.8	775.1
5°	775.1	773.5	768.2	774.3	773.5
7.5°	769.7	769.0	763.7	769.0	768.2
10°	762.1	762.1	756.1	761.4	760.6
12.5°	751.5	752.3	747.7	751.5	749.2
15°	740.1	740.9	735.5	740.1	737.1
17.5°	725.7	727.2	721.9	725.7	723.4
20°	709.7	711.2	705.9	708.2	708.2
22.5°	691.5	694.5	688.4	691.5	689.2
25°	672.5	674.8	670.2	673.2	669.4
27.5°	652.0	655.0	649.7	652.0	650.4
30°	628.4	633.0	628.4	629.9	629.2
32.5°	607.1	610.9	607.9	609.4	608.6
35°	582.1	587.4	585.1	587.4	587.4
37.5°	557.7	562.3	561.5	564.6	563.8
40°	532.7	538.7	538.0	541.0	542.5
42.5°	505.3	513.7	515.9	519.7	519.7
45°	479.5	487.8	491.6	497.0	497.7
47.5°	452.9	460.5	466.6	474.2	475.7
50°	425.5	433.9	442.2	450.6	452.9
52.5°	396.6	407.3	417.9	427.0	428.6
55°	368.5	380.7	392.8	401.2	404.2
57.5°	339.7	354.1	367.8	376.9	379.2
60°	310.8	326.0	341.2	352.6	354.9
62.5°	282.7	297.9	314.6	327.5	330.5
65°	253.8	271.3	289.5	300.9	303.9
67.5°	227.2	243.9	262.2	275.8	279.6
70°	197.6	215.0	234.8	249.2	253.8
72.5°	168.7	186.9	209.0	224.9	228.0
75°	139.8	159.6	183.9	199.1	202.9
77.5°	111.7	134.5	157.3	174.0	177.0
80°	85.9	108.7	134.5	151.2	154.3
82.5°	62.3	86.6	113.2	129.2	135.3
85°	41.8	66.9	93.5	110.2	116.3
87.5°	26.6	50.9	76.7	94.2	99.5
90°	12.7	40.6	69.6	89.4	96.1
92.5°	19.3	37.3	66.6	85.6	91.4
95°	36.1	54.4	62.8	81.8	87.1
97.5°	58.2	79.3	60.7	77.6	83.3
100°	85.1	102.4	128.5	76.1	78.7
102.5°	112.3	128.5	153.1	169.2	135.1
105°	141.8	155.9	178.7	193.9	198.7
107.5°	172.4	183.0	206.0	221.6	224.3
110°	201.9	211.0	233.2	246.3	252.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	230.3	238.6	259.6	271.4	275.8
115°	258.1	265.7	285.9	297.7	299.6
117.5°	287.2	291.0	311.8	321.9	326.3
120°	314.7	316.6	335.4	347.4	349.6
122.5°	338.3	341.4	358.5	369.8	371.5
125°	363.5	366.0	381.2	391.5	393.9
127.5°	387.2	388.7	401.1	411.6	412.5
130°	409.2	410.7	421.9	431.1	432.6
132.5°	430.4	433.2	439.4	450.1	450.8
135°	451.1	453.2	457.5	466.5	467.6
137.5°	470.4	472.5	474.5	483.6	484.4
140°	488.5	489.4	489.7	499.0	499.3
142.5°	505.5	505.2	506.1	512.9	513.2
145°	522.1	522.2	522.2	526.4	526.7
147.5°	536.0	536.0	536.4	538.4	536.7
150°	549.7	548.8	549.7	550.6	547.8
152.5°	563.0	560.8	561.7	562.6	559.4
155°	574.1	571.3	572.2	573.6	569.9
157.5°	582.8	581.4	581.4	582.8	579.1
160°	592.0	589.2	589.7	591.5	587.8
162.5°	599.3	596.6	597.0	599.8	595.7
165°	605.8	603.0	603.5	606.2	602.5
167.5°	610.8	608.1	608.5	611.7	607.6
170°	614.9	611.7	612.2	615.9	611.7
172.5°	617.7	614.5	615.4	618.6	614.5
175°	619.5	616.8	617.2	620.9	616.8
177.5°	620.9	618.2	618.6	621.8	618.2
180°	619.5	619.5	619.5	619.5	619.5

(END OF REPORT)