

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: P1035469

Luminaire Tested: S125DIW-B610D470UB27-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035469
REPORT IS A COMBINATION OF REPORTS P1003910 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D470UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

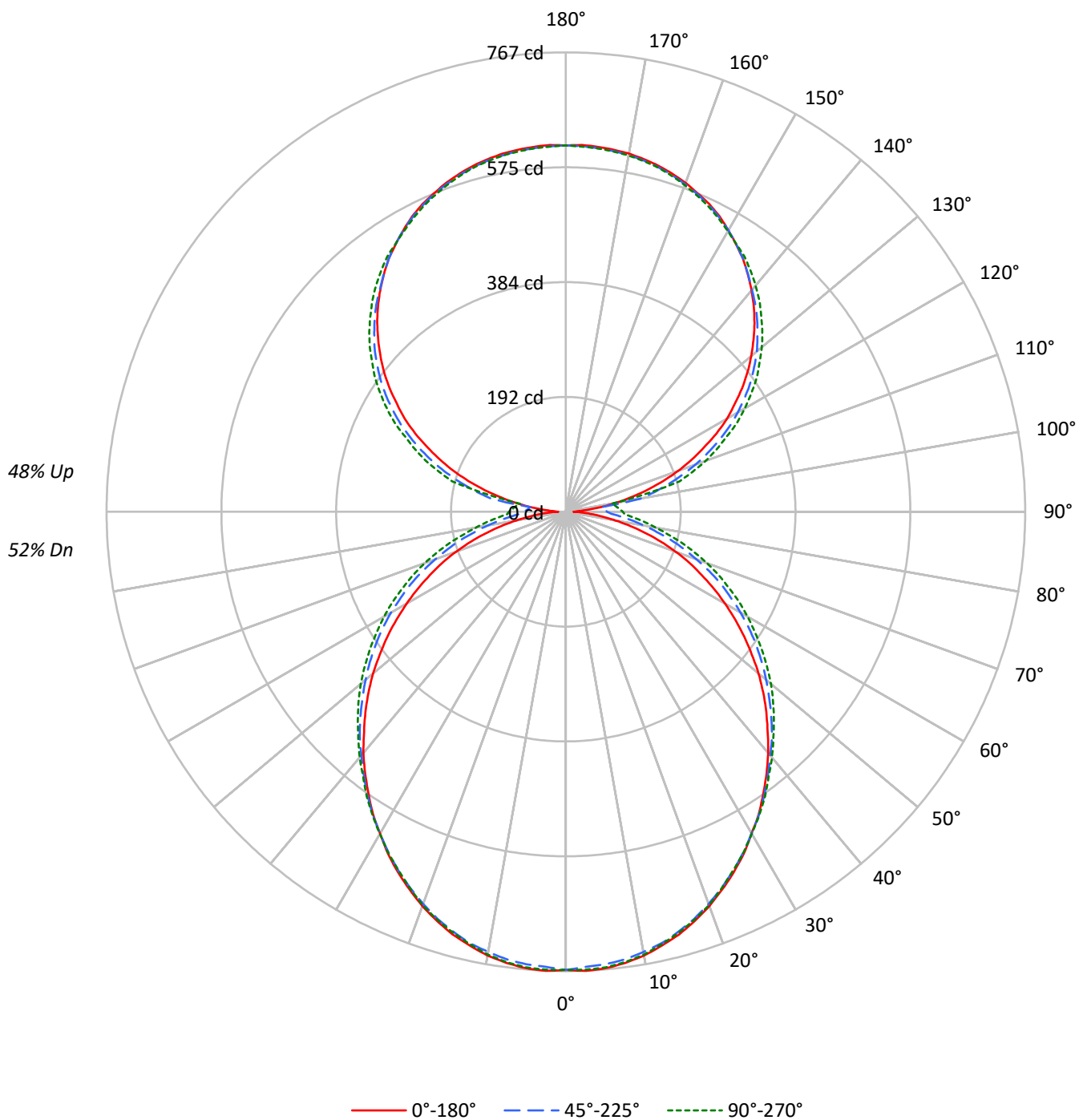
Lumens per Lamp: N/A
Luminaire Lumens: 4250.1 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	30	10
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58
1	98	93	89	85	90	86	82	79	73	70	68	61	59	58	50	49	48
2	89	81	74	69	82	75	69	64	64	59	56	53	50	47	44	42	40
3	81	71	63	57	74	66	59	53	56	51	46	47	43	40	39	36	33
4	74	62	54	48	68	58	51	45	49	44	39	42	37	34	34	31	29
5	67	55	47	41	62	52	44	39	44	38	34	37	33	29	31	27	25
6	62	50	41	35	57	46	39	33	40	34	29	34	29	26	28	24	22
7	57	45	37	31	53	42	34	29	36	30	26	31	26	23	25	22	19
8	53	41	33	27	49	38	31	26	33	27	23	28	23	20	23	20	17
9	50	37	29	24	46	35	28	23	30	24	20	26	21	18	22	18	15
10	46	34	27	22	43	32	25	21	28	22	18	24	19	16	20	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4902	4902	4902
5°	4910	4799	4811
10°	4873	4701	4688
15°	4814	4588	4537
20°	4733	4450	4386
25°	4639	4303	4205
30°	4524	4144	4039
35°	4416	3996	3887
40°	4307	3842	3733
45°	4184	3708	3596
50°	4065	3561	3471
55°	3924	3423	3326
60°	3768	3264	3178
65°	3604	3097	3011
70°	3418	2874	2837
75°	3125	2652	2625
80°	2740	2384	2391
85°	2361	2170	2268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4184 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	1.7
10°-20°	205.5	4.8
20°-30°	305.6	7.2
30°-40°	361.9	8.5
40°-50°	374.2	8.8
50°-60°	344.7	8.1
60°-70°	278.7	6.6
70°-80°	186.5	4.4
80°-90°	97.3	2.3
90°-100°	75.1	1.8
100°-110°	178.1	4.2
110°-120°	275.4	6.5
120°-130°	334.3	7.9
130°-140°	349.9	8.2
140°-150°	323.4	7.6
150°-160°	260.6	6.1
160°-170°	168.5	4.0
170°-180°	58.1	1.4
0°-30°	583.5	13.7
0°-40°	945.4	22.2
0°-60°	1664.3	39.2
0°-90°	2226.7	52.4
90°-120°	528.6	12.4
90°-150°	1536.2	36.1
90°-180°	2023.0	47.6
0°-180°	4250.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	765	764	758	764	764	73
15°	731	731	726	731	728	206
25°	664	666	662	664	661	306
35°	574	580	578	580	580	360
45°	473	482	485	490	491	365
55°	364	376	388	396	399	325
65°	250	268	286	297	300	249
75°	138	158	182	196	200	146
85°	41	66	92	109	115	43
90°	12	40	69	88	95	10
95°	36	54	62	81	86	39
105°	140	154	176	191	196	148
115°	255	262	282	294	296	253
125°	359	361	376	387	389	321
135°	445	448	452	461	462	343
145°	516	516	516	520	520	322
155°	567	564	565	566	563	261
165°	598	595	596	599	595	169
175°	612	609	610	613	609	58
180°	612	612	612	612	612	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.1	765.1	765.1	765.1	765.1
2.5°	767.3	765.8	760.6	765.8	765.1
5°	765.1	763.6	758.3	764.3	763.6
7.5°	759.8	759.1	753.8	759.1	758.3
10°	752.3	752.3	746.3	751.6	750.8
12.5°	741.8	742.6	738.1	741.8	739.6
15°	730.6	731.3	726.1	730.6	727.6
17.5°	716.3	717.8	712.5	716.3	714.0
20°	700.5	702.0	696.8	699.0	699.0
22.5°	682.5	685.5	679.5	682.5	680.3
25°	663.8	666.0	661.5	664.5	660.8
27.5°	643.5	646.5	641.3	643.5	642.0
30°	620.3	624.8	620.3	621.8	621.0
32.5°	599.3	603.0	600.0	601.5	600.8
35°	574.5	579.8	577.5	579.8	579.8
37.5°	550.5	555.0	554.3	557.3	556.5
40°	525.8	531.8	531.0	534.0	535.5
42.5°	498.8	507.0	509.3	513.0	513.0
45°	473.3	481.5	485.3	490.5	491.3
47.5°	447.0	454.5	460.5	468.0	469.5
50°	420.0	428.3	436.5	444.8	447.0
52.5°	391.5	402.0	412.5	421.5	423.0
55°	363.8	375.8	387.8	396.0	399.0
57.5°	335.3	349.5	363.0	372.0	374.3
60°	306.8	321.8	336.8	348.0	350.3
62.5°	279.0	294.0	310.5	323.3	326.3
65°	250.5	267.8	285.8	297.0	300.0
67.5°	224.3	240.8	258.8	272.3	276.0
70°	195.0	212.3	231.8	246.0	250.5
72.5°	166.5	184.5	206.3	222.0	225.0
75°	138.0	157.5	181.5	196.5	200.3
77.5°	110.3	132.8	155.3	171.8	174.8
80°	84.8	107.3	132.8	149.3	152.3
82.5°	61.5	85.5	111.8	127.5	133.5
85°	41.3	66.0	92.3	108.8	114.8
87.5°	26.3	50.3	75.8	93.0	98.3
90°	12.5	40.1	68.8	88.3	94.9
92.5°	19.1	36.8	65.8	84.5	90.3
95°	35.6	53.8	62.1	80.8	86.0
97.5°	57.5	78.2	60.0	76.6	82.3
100°	84.0	101.1	126.9	75.1	77.8
102.5°	110.9	127.0	151.1	167.0	133.4
105°	140.1	153.9	176.4	191.4	196.2
107.5°	170.2	180.7	203.4	218.8	221.5
110°	199.4	208.4	230.3	243.1	248.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	227.5	235.6	256.3	268.0	272.3
115°	254.8	262.4	282.3	294.0	295.8
117.5°	283.6	287.3	307.9	317.9	322.3
120°	310.8	312.5	331.2	343.0	345.2
122.5°	334.0	337.1	354.1	365.1	366.9
125°	359.0	361.4	376.4	386.6	389.0
127.5°	382.3	383.8	396.1	406.4	407.3
130°	404.1	405.5	416.5	425.6	427.2
132.5°	425.0	427.8	433.9	444.4	445.1
135°	445.4	447.5	451.8	460.7	461.6
137.5°	464.5	466.5	468.6	477.6	478.3
140°	482.4	483.3	483.5	492.7	493.0
142.5°	499.2	498.8	499.7	506.5	506.8
145°	515.5	515.6	515.6	519.8	520.1
147.5°	529.2	529.2	529.6	531.6	529.9
150°	542.8	541.9	542.8	543.7	540.9
152.5°	555.9	553.7	554.6	555.5	552.3
155°	566.8	564.1	565.0	566.4	562.8
157.5°	575.4	574.1	574.1	575.4	571.8
160°	584.5	581.8	582.3	584.1	580.4
162.5°	591.8	589.1	589.5	592.2	588.1
165°	598.1	595.4	595.9	598.6	594.9
167.5°	603.1	600.4	600.8	604.0	599.9
170°	607.2	604.0	604.5	608.1	604.0
172.5°	609.9	606.7	607.6	610.8	606.7
175°	611.7	609.0	609.5	613.1	609.0
177.5°	613.1	610.4	610.8	614.0	610.4
180°	611.7	611.7	611.7	611.7	611.7

(END OF REPORT)