

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: P1035470

Luminaire Tested: S125DIW-B610D470UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035470
REPORT IS A COMBINATION OF REPORTS P1003911 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-D1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

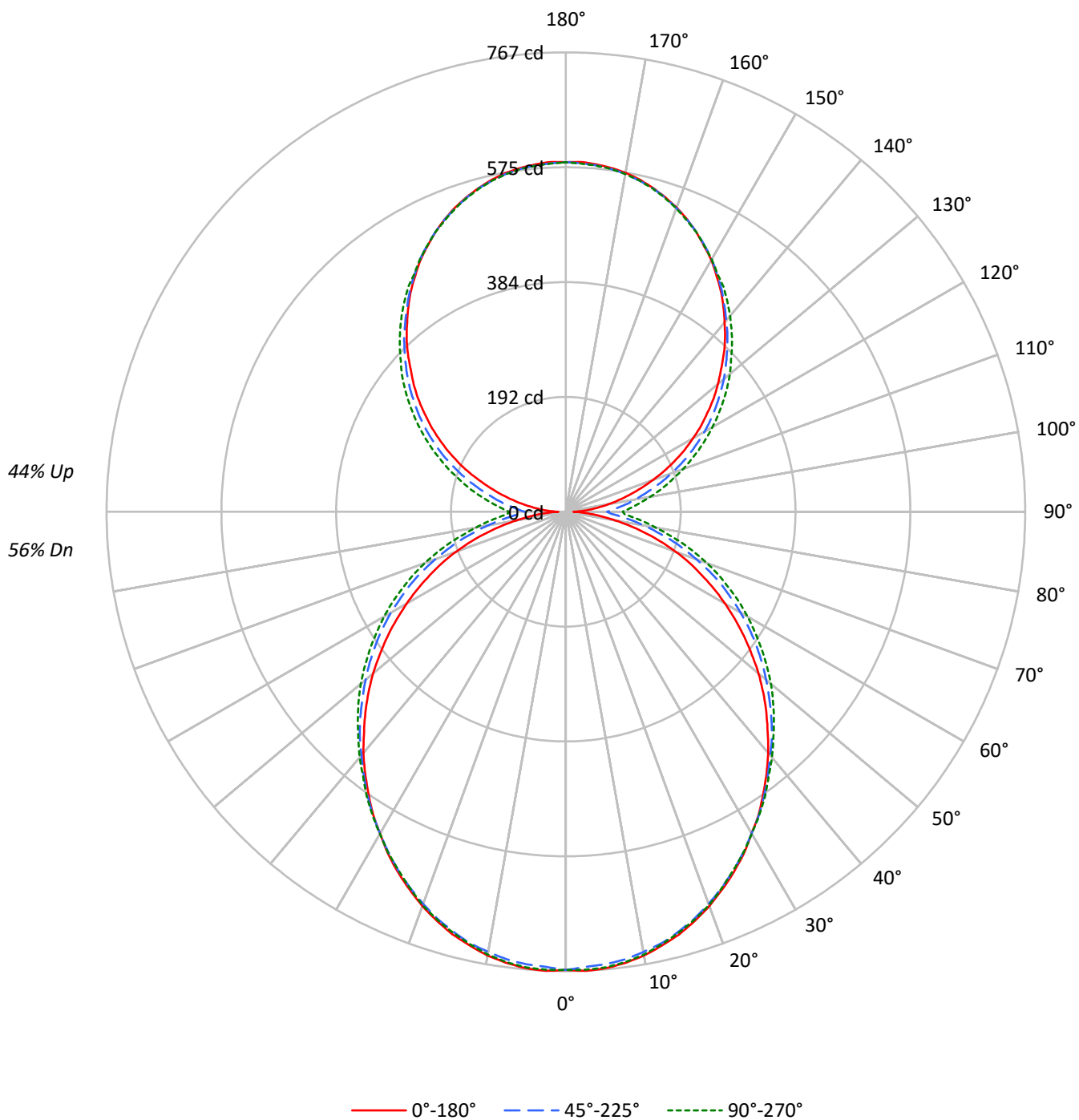
Lumens per Lamp: N/A
Luminaire Lumens: 4000.2 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	101	101	101	101	86	86	86	73	73	73	61	61	61
1	98	94	89	85	91	87	83	80	75	72	69	63	61	59	53	51	50
2	89	81	75	69	82	76	70	65	65	61	57	55	52	49	46	44	42
3	81	71	63	57	75	66	59	54	57	52	47	48	44	41	41	38	35
4	74	63	55	48	68	59	51	45	51	45	40	43	39	35	36	33	30
5	68	56	47	41	63	52	45	39	45	39	35	39	34	30	32	29	26
6	63	50	42	36	58	47	39	34	41	35	30	35	30	26	29	26	23
7	58	45	37	31	54	42	35	30	37	31	26	32	27	23	27	23	20
8	54	41	33	28	50	38	31	26	34	28	23	29	24	21	25	21	18
9	50	37	30	25	46	35	28	23	31	25	21	27	22	19	23	19	16
10	47	34	27	22	43	32	26	21	28	23	19	25	20	17	21	17	15

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	1.8
10°-20°	205.5	5.1
20°-30°	305.6	7.6
30°-40°	361.9	9.0
40°-50°	374.2	9.4
50°-60°	344.7	8.6
60°-70°	278.7	7.0
70°-80°	186.5	4.7
80°-90°	97.3	2.4
90°-100°	93.1	2.3
100°-110°	155.4	3.9
110°-120°	222.4	5.6
120°-130°	272.6	6.8
130°-140°	295.2	7.4
140°-150°	284.1	7.1
150°-160°	237.5	5.9
160°-170°	157.9	3.9
170°-180°	55.3	1.4
0°-30°	583.5	14.6
0°-40°	945.4	23.6
0°-60°	1664.3	41.6
0°-90°	2226.7	55.7
90°-120°	470.9	11.8
90°-150°	1322.8	33.1
90°-180°	1773.0	44.3
0°-180°	4000.2	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°	39	60	90	110	116	39
105°	110	125	150	168	174	118
115°	200	207	228	241	245	198
125°	289	291	306	317	320	259
135°	373	375	381	391	392	288
145°	451	452	453	457	459	282
155°	515	515	516	517	515	237
165°	560	559	560	562	559	158
175°	582	580	580	583	580	55
180°	584	584	584	584	584	

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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°	24.1	48.2	78.5	98.2	104.4
95°	39.3	59.7	89.8	109.5	115.6
97.5°	54.4	72.9	104.0	122.5	128.2
100°	71.9	87.6	117.5	137.4	142.8
102.5°	90.6	107.2	132.7	152.2	158.1
105°	110.4	124.6	149.9	167.6	174.2
107.5°	131.8	144.6	168.7	185.0	189.5
110°	154.3	165.6	187.9	203.5	208.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.9	185.5	207.6	221.6	225.9
115°	200.3	207.4	227.8	240.9	244.9
117.5°	223.2	227.4	247.1	260.2	263.7
120°	245.0	249.5	267.2	279.9	282.6
122.5°	267.8	269.1	286.9	298.5	301.6
125°	288.7	290.7	306.2	317.3	320.5
127.5°	311.2	311.8	325.0	335.8	339.3
130°	331.6	333.1	344.5	354.6	357.4
132.5°	351.3	355.4	362.4	372.5	374.1
135°	373.1	375.1	380.8	390.6	392.4
137.5°	393.5	395.5	399.5	408.9	409.6
140°	412.4	414.6	416.7	425.9	426.6
142.5°	431.9	432.9	434.7	442.0	442.7
145°	451.0	452.0	453.3	457.1	458.8
147.5°	467.9	469.2	470.1	473.0	470.9
150°	485.6	485.1	487.0	487.0	486.8
152.5°	500.1	501.0	501.5	502.9	501.0
155°	515.1	515.1	515.6	517.4	515.1
157.5°	528.7	527.8	528.3	530.1	526.9
160°	540.6	539.2	539.6	541.5	539.2
162.5°	551.0	550.1	550.1	552.4	549.6
165°	560.1	559.2	559.6	561.5	558.7
167.5°	568.3	566.4	566.4	569.2	566.4
170°	574.6	572.8	572.8	575.5	572.4
172.5°	579.2	577.4	577.4	580.1	577.4
175°	582.3	580.5	580.5	583.3	580.1
177.5°	584.6	582.8	582.3	585.1	581.9
180°	583.7	583.7	583.7	583.7	583.7

(END OF REPORT)