

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: P1035482

Luminaire Tested: S125DIW-B610D470UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035482
REPORT IS A COMBINATION OF REPORTS P1003950 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B610D470UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

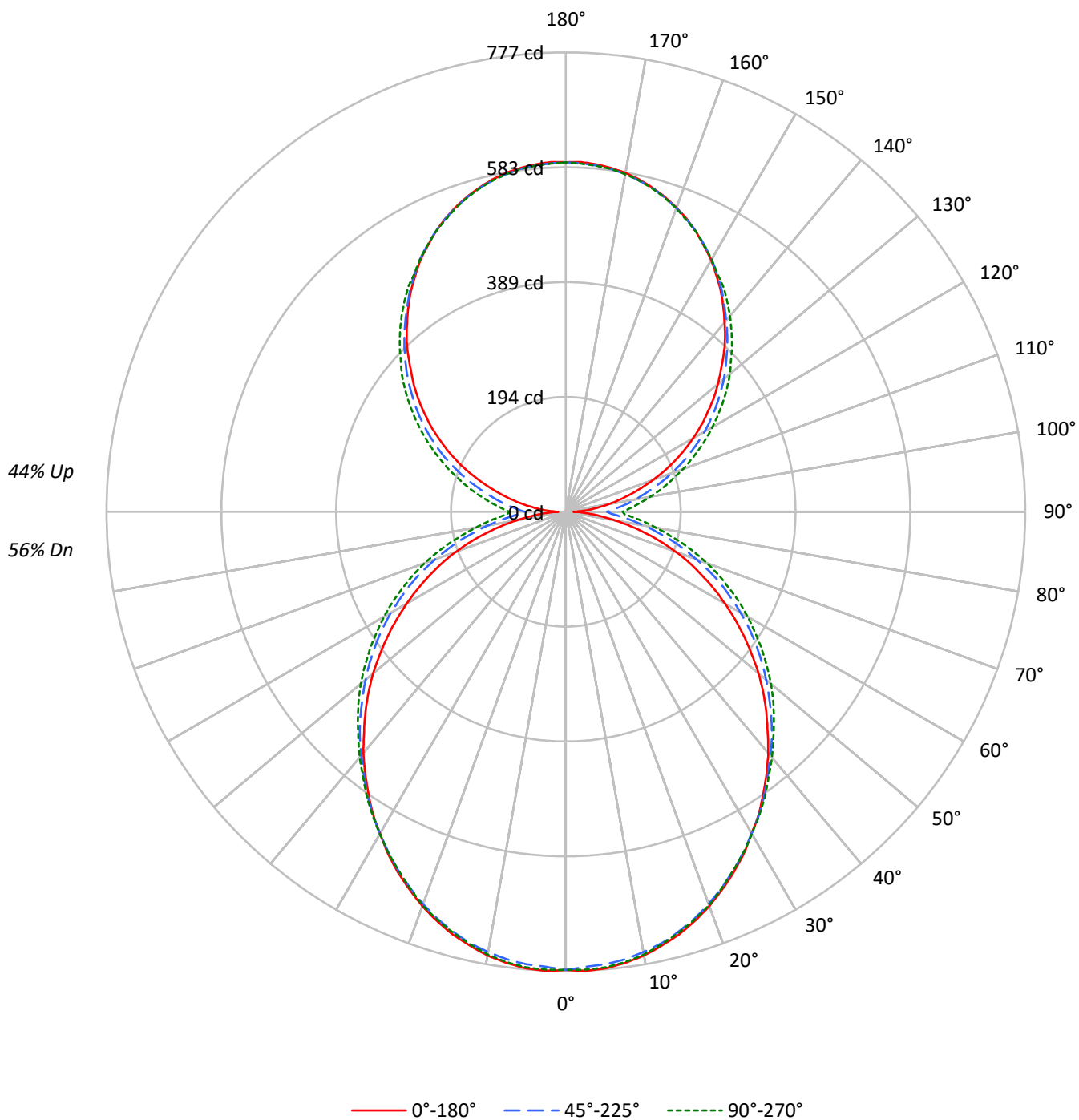
Lumens per Lamp: N/A
Luminaire Lumens: 4052.0 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	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	1.8
10°-20°	208.2	5.1
20°-30°	309.6	7.6
30°-40°	366.7	9.0
40°-50°	379.1	9.4
50°-60°	349.2	8.6
60°-70°	282.3	7.0
70°-80°	188.9	4.7
80°-90°	98.6	2.4
90°-100°	94.3	2.3
100°-110°	157.3	3.9
110°-120°	225.2	5.6
120°-130°	276.1	6.8
130°-140°	298.9	7.4
140°-150°	287.8	7.1
150°-160°	240.6	5.9
160°-170°	159.9	3.9
170°-180°	56.0	1.4
0°-30°	591.2	14.6
0°-40°	957.8	23.6
0°-60°	1686.1	41.6
0°-90°	2255.8	55.7
90°-120°	476.9	11.8
90°-150°	1339.7	33.1
90°-180°	1796.0	44.3
0°-180°	4052.0	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	90	96	10
95°	40	60	91	111	117	39
105°	112	126	152	170	176	119
115°	203	210	231	244	248	201
125°	292	294	310	321	325	262
135°	378	380	386	396	398	291
145°	457	458	459	463	465	285
155°	522	522	522	524	522	240
165°	567	566	567	569	566	160
175°	590	588	588	591	588	56
180°	591	591	591	591	591	

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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	69.7	89.5	96.1
92.5°	24.4	48.8	79.5	99.5	105.7
95°	39.8	60.4	90.9	110.8	117.1
97.5°	55.1	73.9	105.3	124.1	129.8
100°	72.8	88.7	119.0	139.1	144.6
102.5°	91.8	108.5	134.4	154.2	160.1
105°	111.7	126.2	151.8	169.7	176.4
107.5°	133.5	146.4	170.8	187.4	191.9
110°	156.2	167.6	190.3	206.2	211.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.1	188.0	210.3	224.5	228.8
115°	202.9	210.0	230.7	243.9	248.0
117.5°	226.0	230.3	250.2	263.6	267.0
120°	248.1	252.7	270.7	283.6	286.2
122.5°	271.2	272.5	290.6	302.3	305.4
125°	292.4	294.5	310.1	321.3	324.6
127.5°	315.2	315.7	329.1	340.0	343.7
130°	335.9	337.4	349.0	359.1	362.0
132.5°	355.8	359.9	367.1	377.3	378.9
135°	377.9	379.9	385.7	395.6	397.5
137.5°	398.6	400.6	404.5	414.1	414.9
140°	417.7	420.0	422.0	431.4	432.1
142.5°	437.4	438.5	440.3	447.6	448.4
145°	456.8	457.8	459.2	463.0	464.6
147.5°	473.9	475.3	476.2	479.1	476.9
150°	491.8	491.4	493.2	493.2	493.1
152.5°	506.6	507.5	508.0	509.3	507.5
155°	521.8	521.8	522.2	524.1	521.8
157.5°	535.6	534.6	535.1	536.9	533.7
160°	547.5	546.1	546.6	548.4	546.1
162.5°	558.1	557.2	557.2	559.5	556.7
165°	567.3	566.4	566.8	568.7	565.9
167.5°	575.6	573.7	573.7	576.5	573.7
170°	582.0	580.2	580.2	582.9	579.7
172.5°	586.6	584.8	584.8	587.6	584.8
175°	589.9	588.0	588.0	590.8	587.6
177.5°	592.2	590.3	589.9	592.6	589.4
180°	591.2	591.2	591.2	591.2	591.2

(END OF REPORT)