

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: P1035484

Luminaire Tested: S125DIW-B610D470UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035484
REPORT IS A COMBINATION OF REPORTS P1003953 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-F1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

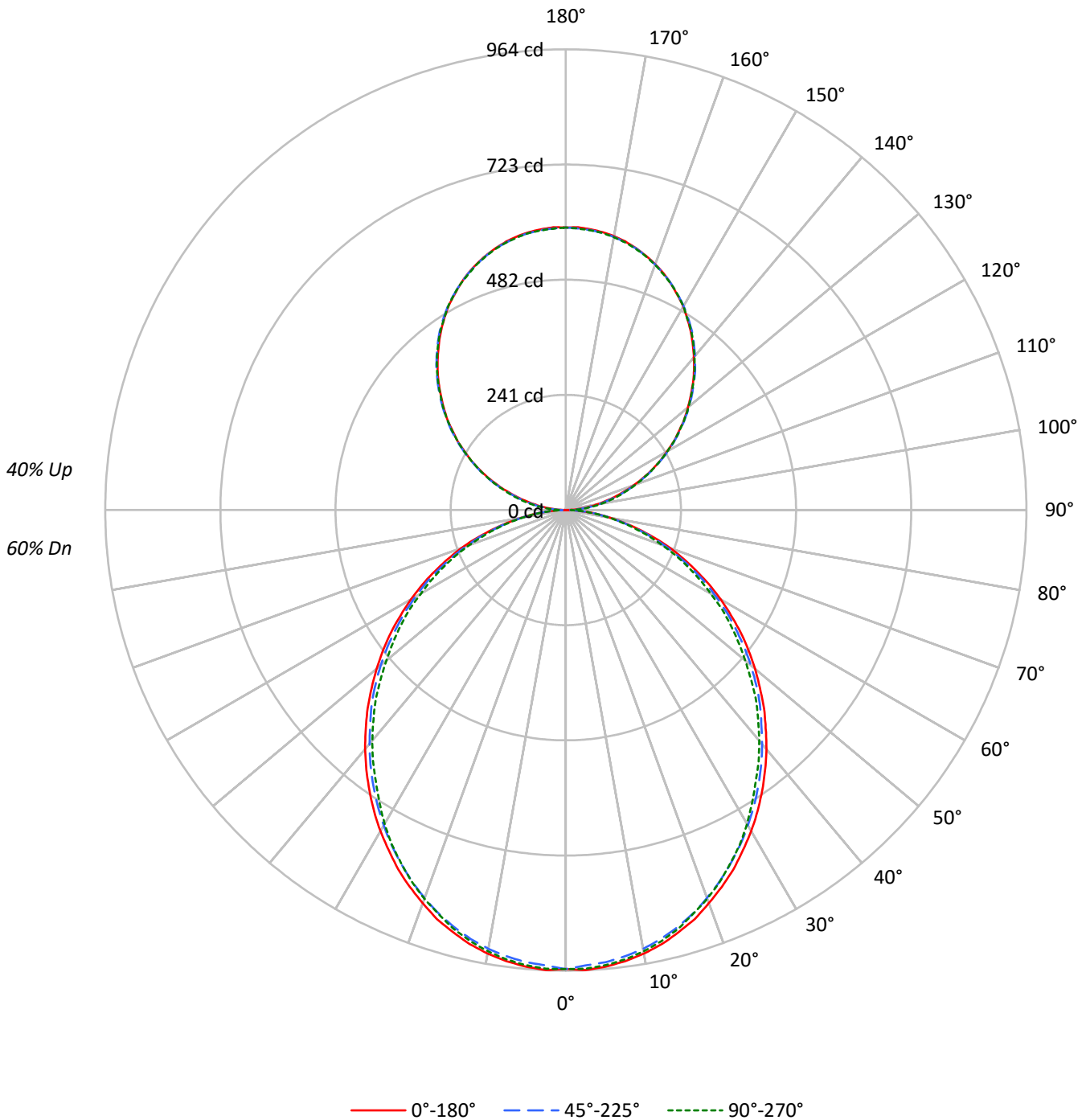
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4151.0 lumens
Efficiency: N/A
Efficacy: 111.6 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 (A_{in}): 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

TEST NUMBER: P1035484
CATALOG NUMBER: S125DIW-B610D470UB35-4F0-XX-W2A-F1

Luminous Intensity Polar Plot





TEST NUMBER: P1035484

CATALOG NUMBER: S125DIW-B610D470UB35-4F0-XX-W2A-F1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	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	66	66	60
1	100	96	92	88	93	89	86	83	78	75	73	68	66	64	58	56	55	55	55	51
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	51	49	46	46	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	40	40	40	36
4	76	65	57	51	71	61	54	48	54	48	43	47	42	39	40	37	34	34	34	31
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	33	30	30	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	26	26	23
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23	23	23	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	21	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	19	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	17	17	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6154	6154	6154
5°	6154	6012	6023
10°	6104	5873	5855
15°	6024	5708	5657
20°	5915	5517	5431
25°	5799	5309	5188
30°	5659	5092	4933
35°	5509	4864	4646
40°	5353	4624	4392
45°	5186	4389	4121
50°	5001	4123	3805
55°	4819	3829	3515
60°	4601	3520	3178
65°	4341	3162	2829
70°	4076	2751	2427
75°	3630	2265	1962
80°	3093	1691	1443
85°	2390	1002	796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5186 cd/sqm



TEST NUMBER: P1035484

CATALOG NUMBER: S125DIW-B610D470UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	2.2
10°-20°	256.0	6.2
20°-30°	378.0	9.1
30°-40°	441.0	10.6
40°-50°	442.9	10.7
50°-60°	388.8	9.4
60°-70°	289.6	7.0
70°-80°	165.4	4.0
80°-90°	48.7	1.2
90°-100°	39.3	0.9
100°-110°	116.8	2.8
110°-120°	198.1	4.8
120°-130°	260.8	6.3
130°-140°	292.2	7.0
140°-150°	286.4	6.9
150°-160°	240.6	5.8
160°-170°	159.9	3.9
170°-180°	56.0	1.3
0°-30°	724.6	17.5
0°-40°	1165.6	28.1
0°-60°	1997.3	48.1
0°-90°	2500.9	60.2
90°-120°	354.2	8.5
90°-150°	1193.6	28.8
90°-180°	1650.0	39.7
0°-180°	4151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	959	958	950	957	956	91
15°	914	912	904	907	907	258
25°	830	826	816	818	815	382
35°	717	714	703	699	693	448
45°	587	584	574	565	563	452
55°	447	444	434	427	422	399
65°	302	300	292	285	282	299
75°	160	159	155	153	150	171
85°	42	43	43	42	40	46
90°	0	4	7	10	11	5
95°	30	31	35	39	40	31
105°	105	107	110	113	114	112
115°	198	200	201	201	200	196
125°	289	292	293	292	291	259
135°	376	379	380	380	378	290
145°	456	458	459	459	458	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	



TEST NUMBER: P1035484

CATALOG NUMBER: S125DIW-B610D470UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.5	960.5	960.5	960.5	960.5
2.5°	963.6	961.3	953.7	961.3	960.5
5°	959.0	957.5	949.9	956.7	956.0
7.5°	952.2	950.6	942.3	949.1	948.4
10°	942.3	940.8	932.4	938.5	937.7
12.5°	930.1	927.1	919.5	924.0	924.0
15°	914.2	911.9	903.5	907.3	907.3
17.5°	897.4	893.6	885.3	889.8	886.1
20°	875.4	873.9	864.0	869.3	865.5
22.5°	853.4	850.3	841.2	844.3	842.0
25°	829.8	826.0	816.1	817.7	815.4
27.5°	802.5	800.2	790.3	791.1	788.8
30°	775.9	773.6	762.2	760.7	758.4
32.5°	747.0	743.2	733.3	730.3	725.7
35°	716.6	713.6	702.9	699.1	693.0
37.5°	685.4	681.6	671.8	666.4	662.6
40°	653.5	649.7	639.1	632.2	630.0
42.5°	619.3	616.3	605.6	599.6	595.8
45°	586.6	583.6	574.5	565.4	563.1
47.5°	550.9	551.7	540.3	531.2	525.9
50°	516.7	514.5	505.3	495.5	490.1
52.5°	481.8	480.3	470.4	462.0	455.9
55°	446.8	444.5	433.9	427.1	421.7
57.5°	409.6	408.8	399.7	390.6	388.3
60°	374.6	371.6	363.2	355.6	350.3
62.5°	338.2	335.9	329.0	320.7	316.9
65°	301.7	300.2	291.8	285.0	281.9
67.5°	266.0	262.9	256.8	250.8	249.2
70°	232.5	228.7	221.9	217.3	214.3
72.5°	196.1	193.8	190.0	184.7	181.6
75°	160.3	158.8	155.0	152.7	149.7
77.5°	126.9	126.1	123.9	122.3	120.1
80°	95.7	95.7	94.2	93.5	91.9
82.5°	68.4	66.9	66.9	65.4	65.4
85°	41.8	42.6	42.6	41.8	40.3
87.5°	20.5	20.5	19.8	19.8	18.2
90°	0.5	4.1	7.4	9.7	11.0
92.5°	13.8	16.1	20.2	23.5	24.4
95°	29.9	30.8	35.4	38.6	39.6
97.5°	46.0	46.5	52.9	55.7	56.1
100°	64.4	64.4	70.4	74.5	75.5
102.5°	84.2	86.5	88.8	93.4	94.8
105°	104.9	107.2	110.0	112.7	114.1
107.5°	127.4	129.7	132.0	133.4	133.4
110°	150.9	153.2	154.6	156.0	155.5



TEST NUMBER: P1035484

CATALOG NUMBER: S125DIW-B610D470UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.8	175.8	177.6	178.1	177.1
115°	198.3	200.1	201.1	200.6	200.1
117.5°	222.2	222.7	223.6	224.1	222.2
120°	244.3	246.6	247.1	247.1	245.2
122.5°	268.2	268.7	270.1	269.6	268.2
125°	289.4	292.2	292.6	291.7	291.2
127.5°	312.9	314.2	314.7	314.2	313.3
130°	333.6	335.9	336.8	336.3	335.4
132.5°	354.3	358.4	358.0	357.5	356.1
135°	376.4	379.1	379.6	379.6	377.7
137.5°	397.1	399.8	400.7	401.2	398.9
140°	416.9	419.2	420.5	421.5	419.2
142.5°	436.6	438.5	440.3	440.8	438.5
145°	456.0	457.8	459.2	459.2	457.8
147.5°	473.9	475.3	476.2	477.6	473.9
150°	491.8	491.4	493.2	493.2	492.3
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)